STR-D560Z/D660Z/DE615/DE715

SERVICE MANUAL

US Model
STR-D560Z/D660Z/DE615/DE715

Canadian Model
STR-DE615/DE715

Australian Model
STR-DE715

Photo : STR-DE615

Manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby", the double-D symbol ◻◻ and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts per channel, minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output (US model only).

Amplifier section

POWER OUTPUT

Stereo mode (8 ohms 20 Hz - 20 kHz, THD 0.09%)
100 W + 100 W

Surround mode (8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center (PRO LOGIC mode): 100W
Rear: 100 W/ch

5.1/DVD mode (8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center: 100W
Rear: 100 W/ch

Dynamic power output
155 W + 155 W, 8 ohms
110 W + 110 W, 4 ohms

Harmonic distortion at rated output
Less than 0.09%

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, TAPE, DAT/MD, VIDEO 1, 2,:
10 Hz - 50 kHz $^{+1}_{-3}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	75 dB* (A, 2.5 mV)
CD	200 mV	50 kilohms	82 dB* (A, 150 mV)
TAPE, DAT/MD, VIDEO 1, 2, TV/DBS	150 mV		
5.1 INPUT	200 mV	50 kilohms	82 dB* (A, 150 mV)

* '78 IHF

Outputs
VIDEO 1, 2 AUDIO OUT:
Voltage: 150 mV, Impedance: 10 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohms
PHONES:
Accepts low and high impedance headphones

BASS BOOST +10 dB at 70 Hz

TONE ±8 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Sensitivity
Mono: 18.3 dBf, 4.5 μV
Stereo: 38.3 dBf, 45 μV

Usable sensitivity
11.2 dBf, 2 μV (IHF)

S/N
Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz - 15 kHz $^{+0.5}_{-2}$ dB

Selectivity 60 dB at 400 kHz

– Continued on page 2 –

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

AM tuner section

Tuning range US, Canadian model :
With 10 kHz interval**:
530 - 1710 kHz
With 9 kHz interval:
531 - 1710 kHz
Australian model :
531-1602 kHz

Antenna Loop antenna

Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion
0.5 % (50 mV/m, 400 kHz)

Selectivity At 9 kHz: 35 dB
At 10 kHz: 40 dB

** You can change the AM tuning interval to 9 kHz (US and Canadian model only). After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz, repeat the procedure.

Video section

Inputs VIDEO 1, 2, TV/DBS, 5.1 INPUT:
1 Vp-p 75 ohms

Outputs VIDEO 1, 2, MONITOR:
1 Vp-p 75 ohms

General

System Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low-noise NF type equalizer
Power amplifier section:
Pure-complimentary SEPP

Power requirements
Australian model:
240 V AC, 50 Hz
US, Canadian model :
120 V AC, 60 Hz

Power consumption
US model: 280 W
Canadian model:
480 VA
Australian model:
280 W

AC outlets Australian model:
1 switched, total 100 W
Other models:
2 switched, total 120 W

Dimensions 430 × 155 × 350 mm
(17 × 6 1/8 × 13 7/8 inches)

Mass (Approx.) 9.8 kg (21 lb 9 oz)

Supplied accessories
See page 4.

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Specifications 1

1.GENERAL
Location and Function of Controls 4

2. DIAGRAMS
2-1. IC Pin Functions 6
2-2. Circuit Boards Locations 10
2-3. Printed Wiring Boards – AMP Section – 11
2-4. Schematic Diagram – AMP Section – 15
2-5. Schematic Diagram – Surround Section – 19
2-6. Printed Wiring Boards – Surround Section – 23
2-7. Schematic Diagram
– Display Section (STR-D560Z/DE615) – 26
2-8. Printed Wiring Boards
– Display Section (STR-D560Z/DE615) – 29
2-9. Printed Wiring Boards
– Display Section (STR-D660Z/DE715) – 33
2-10. Schematic Diagram
– Display Section (STR-D660Z/DE715) – 37

3. EXPLODED VIEWS
3-1. Front Panel Section 44
3-2. Chassis Section 46
3-3. Back Panel Section 47

4. ELECTRICAL PARTS LIST 48

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer :
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCAWT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The " limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

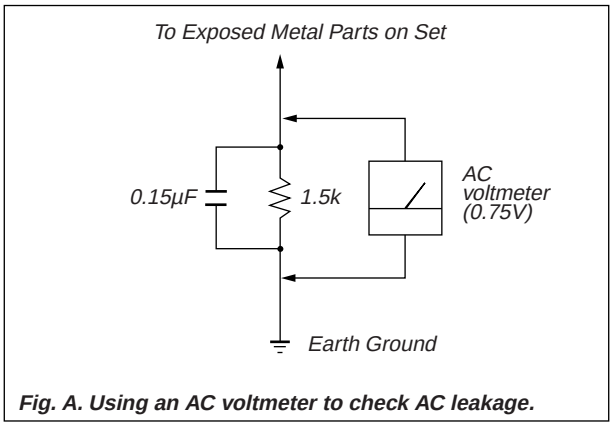


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

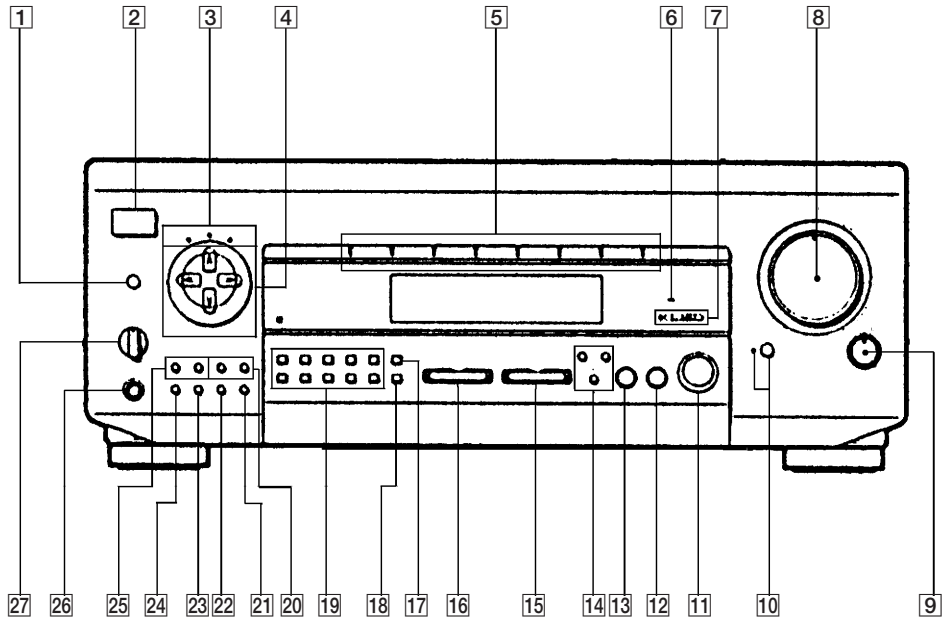
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

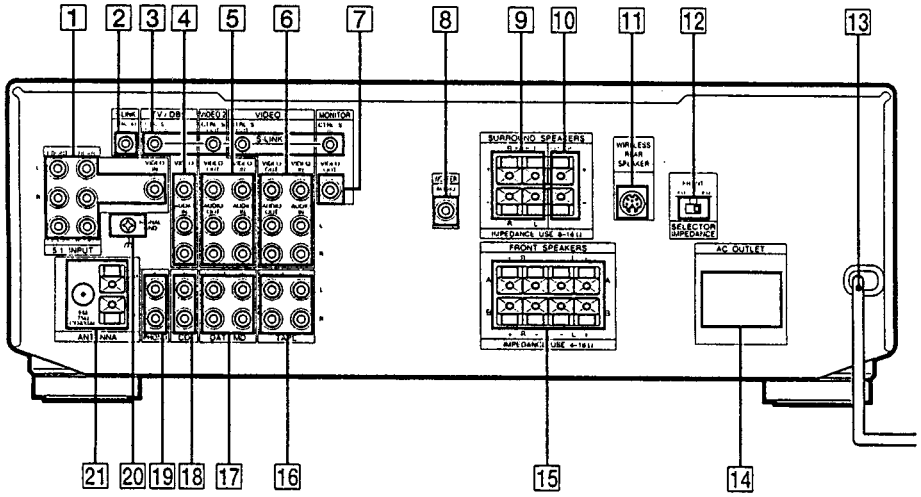
LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



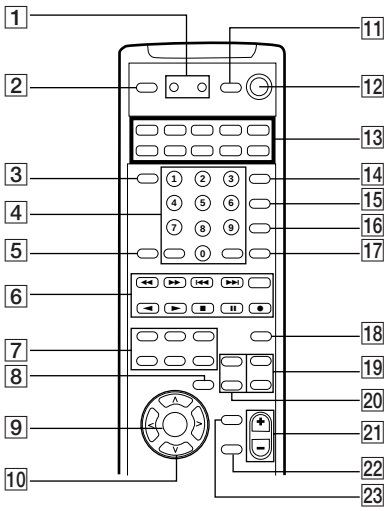
1 DPC MODE button
2 POWER switch
3 SUR, TONE, INDEX indicators
4 Digital processing control buttons
5 Function indicators
6 DIRECT PASS indicator
7 5.1 INPUT indicator
8 MASTER VOLUME control
9 BALANCE control
10 BASS BOOST button/indicator
11 SOUND FIELD ON/OFF button
12 MODE button
13 GENRE button
14 DIRECT PASS, SET UP, 5.1/DVD INPUT buttons
15 AUDIO FUNCTION buttons
16 VIDEO FUNCTION buttons
17 DIRECT button
18 SHIFT button
19 Numeric buttons
20 PRESET TUNING +,– buttons
21 MEMORY button
22 DISPLAY button
23 FM/AM button
24 FM MODE button
25 TUNING +,– buttons
26 PHONES jack
27 SPEAKERS switch

[REAR PANEL]



1 5.1 INPUT
2 S-LINK CTRL A1 (STR-DE715 : US, Canadian model)
3 CTRL S (STR-DE715 : US, Canadian model)
4 TV/DBS
5 VIDEO 2
6 VIDEO 1
7 MONITOR
8 WOOFER
9 SURROUND SPEAKERS (REAR)
10 SURROUND SPEAKERS (CENTER)
11 WIRELESS REAR SPEAKER (STR-DE715 and DE615 only)
12 IMPEDANCE SELECTOR
13 AC power cord
14 SWITCHED AC OUTLET(s) (Outlet shape and position varies according to destination)
15 FRONT SPEAKERS (A/B)
16 TAPE
17 DAT/MD
18 CD
19 PHONO
20 ⏚ SIGNAL GND
21 ANTENNA (AM/FM)

[REMOTE]



1 LEARN button/indicator
2 SLEEP button
3 TV CONTROL ON button
4 Numeric, ENTER buttons
5 BACKGROUND button
6 VCR/CD/DVD control buttons
7 SOUND FIELD buttons
8 DIRECT button
9 DPC MODE button
10 DIGITAL PROCESSING CONTROL buttons
11 VISUAL POWER button
12 SYSTEM OFF button
13 SYSTEM CONTROL/FUNCTION buttons
14 5.1/INPUT button
15 TV/VIDEO button
16 Direct TUNING button
17 CH/PRESET button
18 TEST TONE button
19 CENTER LEVEL +, – buttons
20 REAR LEVEL +, – buttons
21 MASTER VOL buttons
22 MUTING button
23 BASS BOOST button

SECTION 2
DIAGRAMS

2-1. IC PIN FUNCTION

IC103 MB90673PF-G-196-BND (SYSTEM CONTROL) (STR-D660Z/DE715)

Pin No.	Pin name	I/O	Description
1	AC MUTE	O	AC mute drive.
2	D. LAT	O	Data latch output.
3	T. LAT	O	Tuner function latch output.
4	S. CLK	O	Serial clock output.
5	S. DATA	O	Serial data output.
6	S. LAT	O	Serial latch output.
7	AUTO STOP	O	Tuner auto stop output.
8	T. MUTE	O	Tuner mute output.
9	STEREO	I	Stereo detect signal input.
10	IF DATA IN	I	IF data input.
11	VSS (D)	–	Ground.
12	V-A	O	Video switch control output.
13	V-B	O	Video switch control output.
14	RM INPUT	I	Remote control signal input.
15	V-E	O	Video switch control output.
16	V-INH	–	Not used (Open).
17	LED DATA	O	LED data output.
18	LED CLR	O	LED clock signal output.
19	S. POWER	I	Power switch input.
20	RX (SIN)	–	Not used (Fixed at " L ")
21	TX (SOUT)	–	Not used (Open).
22	BUSY	–	Not used (Open).
23	FL CLEAR	O	FL reset signal output.
24	FL DATA	O	FL data output.
25	FL CLK	O	FL clock output.
26	FL LAT	O	FL latch signal output.
27	———	–	Not used (Ground).
28	VCC(A)	–	Analog power supply (+4.9V).
29	+ AVR	–	Connect to VDD (+5.1V).
30	– AVR	–	Not used (Ground).
31	GND (D)	–	Ground.
32	AD KEY IN1	I	Key input.
33	AD KEY IN2	I	Key input.
34	VSS(D)	–	Ground.
35	AD KEY IN3	I	Key input.
36	AD KEY IN4	I	Key input.
37	AD KEY IN5	I	Key input.
38	AD VERSION	I	Model select.
39	VOL +	O	Volume up control output.
40	VOL –	O	Volume down control output.
41	MODE0	–	Not used (Fixed at " H ")
42	MODE1	–	Not used (Fixed at " H ")
43	MODE2	–	Not used (Ground).
44	STANDBY	–	Connect to VDD (+5.1V).
45	STOP	O	Power ON/OFF control output.

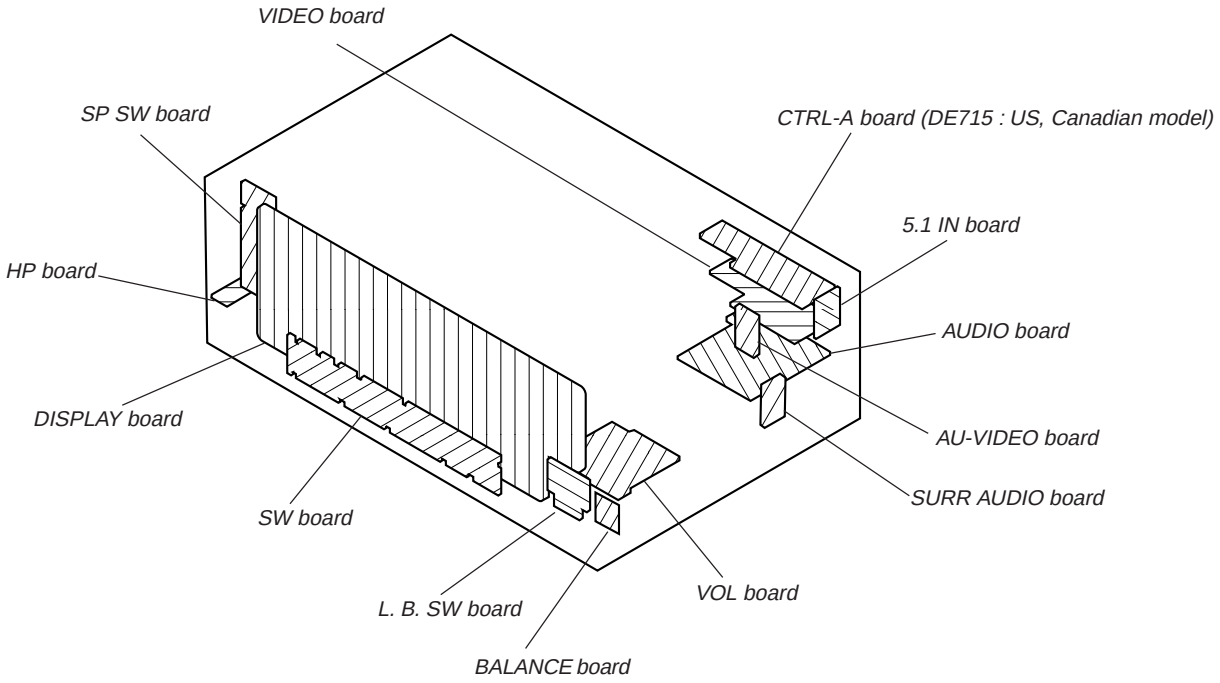
Pin No.	Pin name	I/O	Description
46	LERNING LED	–	Not used (Open).
47	———	–	Not used (Ground).
48	———	–	Not used (Ground).
49	CTR A IN	I	Control S signal input (DE715 : US, Canadian model).
50	STANDBY LED	–	Not used (Open).
51	VOL LED	O	Volume LED drive.
52	S-OUT	O	Control S signal output (DE715 : US, Canadian model).
53	CTR A OUT	O	Control S signal output (DE715 : US, Canadian model).
54	VIDEO1 (M-BUS)	O	VIDEO1 control signal output.
55	VIDEO2 (M-BUS)	O	VIDEO2 control signal output.
56	TV (M-BUS)	O	TV control signal output.
57	——	–	Not used (Ground).
58	SP OFF IN	I	Speaker switch input.
59	SIGNAL IN	–	Not used (Ground).
60	——	–	Not used (Ground).
61	——	–	Not used (Ground).
62	RESET	I	Reset terminal.
63	V_{SS}(D)	–	Ground.
64	XO	O	System clock (4.19MHZ).
65	XI	I	System clock (4.19MHZ).
66	V_{CC}(D)	–	Digital power supply (+4.9V).
67	——	–	Not used (Ground).
68	POWER RY	O	Power relay drive.
69	BRIDGE RY	–	Power key input.
70	SUR RY	O	Surround relay drive.
71	CENTER RY	O	Center relay drive.
72	FRONT RY (H,P)	O	Front (Headphone) relay drive.
73	MIX/SUB RY	O	Woofer relay drive.
74	4/8 IN	–	Not used (Ground).
75	PROTECT IN	I	Protector operation input.
76	DIRECT PASS	O	Direct pass relay drive.
77	BASS BOOST	O	Bass boost ON/OFF control.
78	F/C/W MUTE	O	Front, Center, Woofer mute drive.
79	SL MUTE	O	Surround L-CH mute drive.
80	SR MUTE	O	Surround R-CH mute drive.

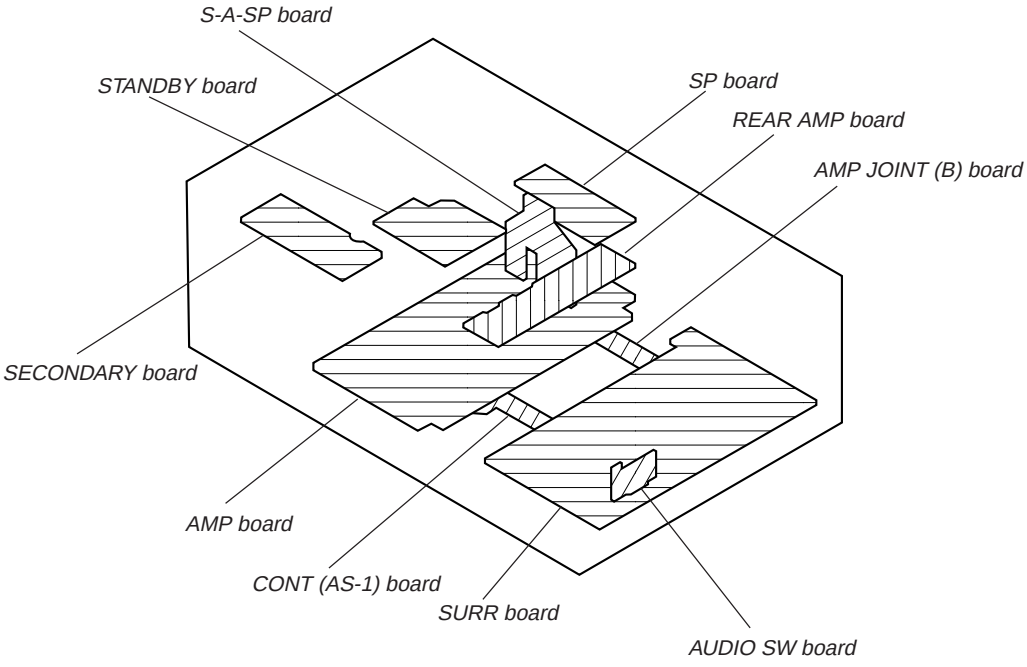
IC103 µPD780205GF-027-3BA (SYSTEM CONTROL) (STR-D560Z/DE615)

Pin No.	Pin name	I/O	Description
1	——	–	Not used (Connect to V_{DD}).
2 – 4	——	–	Not used (Connect to ground).
5	F/C/W. MUTE	O	Front, Center, Woofer mute drive.
6	SL MUTE	O	Surround L-CH mute drive.
7	SR MUTE	O	Surround R-CH mute drive.
8	AC MUTE	O	AC mute drive.
9	D LATCH	O	Data latch output.
10	RESET	I	Reset terminal.
11	X2	O	System clock (4.19MHZ).
12	X1	I	System clock (4.19MHZ).
13	VSS	–	Ground.
14	NP	–	Not used (Open).
15	——	–	Connect to reset terminal.
16	V_{DD}	–	Power supply (+5V).
17	T LATCH	O	Tuner function latch output.
18	S CLOCK	O	Serial clock output.
19	S DATA	O	Serial data output.
20	S LATCH	O	Serial latch output.
21	AUDIO. STOP	O	Tuner auto stop output.
22	TUNER MUTE	O	Tuner mute output.
23	STEREO	I	Stereo detect signal input.
24	IF DATA IN	I	IF data input.
25	GND A/D	–	Ground.
26	SIRCS	I	Remote control signal input.
27	POWER KEY	I	Power key input.
28	VERSION	I	Model select input.
29	KEY 5	I	Key input.
30	KEY 4	I	Key input.
31	KEY 3	I	Key input.
32	KEY 2	I	Key input.
33	KEY 1	I	Key input.
34	VDD A/D	–	Power supply (+5V).
35	VREF A/D	I	Reference voltage input.
36	V-A	O	Video switch control output.
37	V-B	O	Video switch control output.
38	V-E	O	Video switch control output.
39	STOP	O	Power ON/OFF control output.
40	V_{SS}	–	Ground.
41	DIRECT PASS	O	Direct pass relay drive.
42	SUR RY	O	Surround relay drive.
43	CENTER RY	O	Center relay drive.
44	FRONT RY	O	Front relay drive.
45	MIX SUB RY	O	Woofer relay drive.

Pin No.	Pin name	I/O	Description
46	V_{DD}	–	Power supply (+5V).
47	PROTECTOR IN	I	Protector operation input.
48	POWER RY	O	Power relay drive.
49	BASS BOOST	O	Bass boost ON/OFF control.
50	SP OFF	I	Speaker switch input.
51	VOL –	O	Volume down control output.
52	VOL +	O	Volume up control output.
53	VOL LED	O	Volume LED drive.
54	STANDBY LED	–	Not used (Open).
55	———	–	Not used (Open).
56	BASS BOOST LED	O	BASS BOOST LED drive.
57	5.1 INPUT LED	O	5.1 INPUT LED drive.
58	DIRECT PASS LED	O	DIRECT PASS LED drive.
59	SUR LED	O	SUR LED drive.
60	TONE LED	O	TONE LED drive.
61	VIDEO 1 LED	O	VIDEO 1 LED drive.
62	INDEX LED	O	INDEX LED drive.
63	PHONO LED	O	PHONO LED drive.
64	TUNER LED	O	TUNER LED drive.
65	DAT MD LED	O	DAT/MD LED drive.
66	CD LED	O	CD LED drive.
67	TAPE LED	O	TAPE LED drive.
68	TV/DBS LED	O	TV/DBS LED drive.
69	VIDEO2 LED	O	VIDEO2 LED drive.
70 – 78	P1 – P9	O	FL segment drive.
79	V LOARD	–	FL power supply (– 35V).
80 – 87	P10 – P17	O	FL segment drive.
88 – 100	G1 – G13	O	FL segment drive.

2-2. CIRCUIT BOARDS LOCATIONS





2-3. PRINTED WIRING BOARDS – AMP SECTION –

● **SEMICONDUCTOR LOCATION**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D152	H-13	D752	B-14	Q559	J-4
D501	J-5	D753	B-14	Q560	J-4
D502	J-5	D754	C-14		
D503	J-6			Q561	J-4
D504	J-6	D801	J-18	Q596	G-4
		D802	J-20	Q601	H-10
D505	J-4	D803	J-20	Q604	J-9
D506	J-4	D804	J-20	Q605	J-9
D543	D-4	D805	J-20		
D545	G-4			Q606	J-8
D546	J-3	D806	I-20	Q607	J-9
		D807	I-12	Q608	J-10
D547	I-13	D901	E-18	Q609	B-3
D548	J-12	D902	E-18	Q610	B-3
D549	I-12	D903	E-18		
D551	J-10			Q611	C-4
D552	J-10	D904	E-18	Q612	H-6
		D905	E-18	Q613	H-6
D553	J-11	D906	E-18	Q614	I-11
D554	J-11	D907	D-18	Q615	H-6
D555	J-4				
D556	J-4			Q616	H-6
D601	J-8	IC701	B-11	Q617	I-12
		IC702	A-3	Q618	I-11
D602	J-7	IC801	G-5	Q645	C-3
D603	J-9	IC803	H-6	Q651	
D604	J-9	IC901	E-17		
D605	C-3			Q703	B-11
D606	B-3			Q704	B-10
		Q504	J-6	Q705	C-10
D607	B-4	Q505	J-6	Q706	C-9
D608	G-10	Q506	J-5	Q707	C-10
D611	H-13	Q507	J-7		
D647	I-12	Q508	J-7	Q708	B-9
D648	H-6			Q709	E-4
		Q509	J-4	Q710	E-4
D649	D-3	Q510	J-4	Q745	E-3
D651	H-13	Q511	J-4	Q747	B-3
D701	B-10	Q544	D-4		
D702	B-10	Q546	G-4	Q748	B-3
D703	B-10			Q754	B-14
		Q547	J-13	Q755	C-13
D704	C-10	Q548	I-13	Q756	C-13
D705	E-4	Q549	I-13	Q757	C-14
D706	E-4	Q554	J-11		
D711	H-13	Q555	J-11	Q758	B-15
D716	H-13			Q801	I-12
		Q556	J-11	Q901	D-18
D749	F-3	Q557	J-12	Q902	E-17
D751	B-13	Q558	J-12		

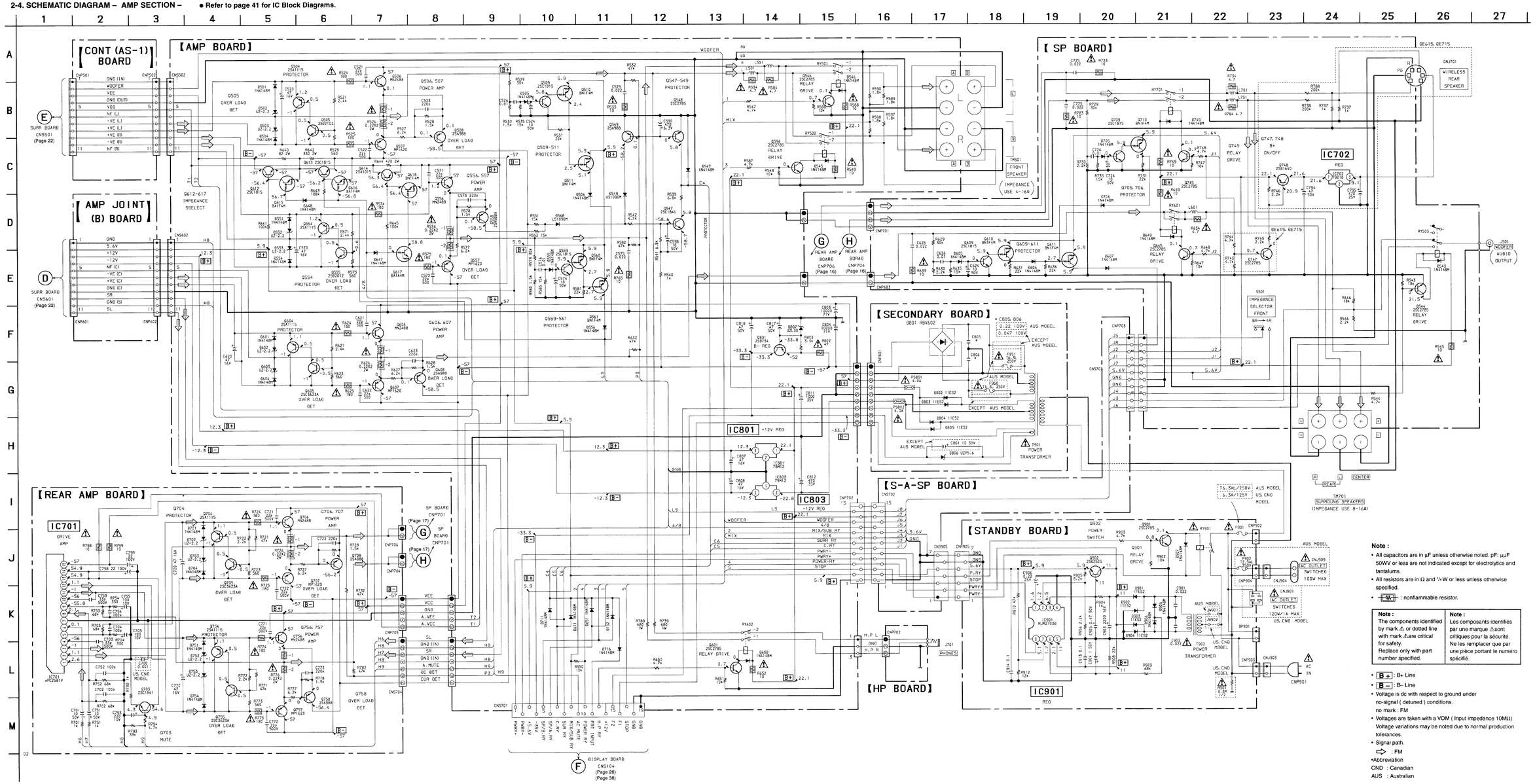
Note:

- ○— : parts extracted from the component side.
- ▭ : Pattern on the side which is seen.
- •Abbreviation
  CND : Canadian
  AUS : Australian

【SP BOARD】
【S-A-SP BOARD】
【REAR AMP BOARD】
【STANDBY BOARD】
【AMP JOINT (B) BOARD】
【HP BOARD】
【AMP BOARD】
【CONT(AS-I) BOARD】
【SECONDARY BOARD】

2-4. SCHEMATIC DIAGRAM – AMP SECTION –

● Refer to page 41 for IC Block Diagrams.



Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground under no-signal (detuned) conditions. no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM
- Abbreviation
  CND : Canadian
  AUS : Australian

2-5. SCHEMATIC DIAGRAM – SURROUND SECTION –

● Refer to page 41 for IC Block Diagrams.

【VIDEO BOARD】

【AU-VIDEO BOARD】

【AUDIO BOARD】

【SURR AUDIO BOARD】

【SURR BOARD】

【AUDIO SW BOARD】

【5.1 IN BOARD】

IC201 VIDEO SWITCH

IC401 BOLBY PROLOGIC MATRIX DECODER

IC402 BUFFER

IC403 SURROUND /CENTER AMP

IC404 SURROUND AMP

IC405 CENTER AMP

IC406 AUDIO SWITCH

IC407 REG

IC408 REG

IC501 DRIVE AMP

IC502 TONE CONTROL

IC601 DRIVE AMP

IC301 AUDIO SWITCH

IC302 EQ AMP

IC303 AUDIO SWITCH

Q401, 405 451 MUTE

Q402, 452 MUTE

Q501, 502 BBFB CONTROL

Q551, 552 BBFB CONTROL

Q410 2SC2603 RELAY DRIVE

TU401 TUNER UNIT

CONT (AS-1) BOARD CNP51 (Page 15)

AMP JOINT (B) BOARD CNP401 (Page 15)

VOL BOARD CN5402 (Page 28) (Page 40)

VOL BOARD CN5410 (Page 28) (Page 40)

DISPLAY BOARD CN5105 (Page 27) (Page 38)

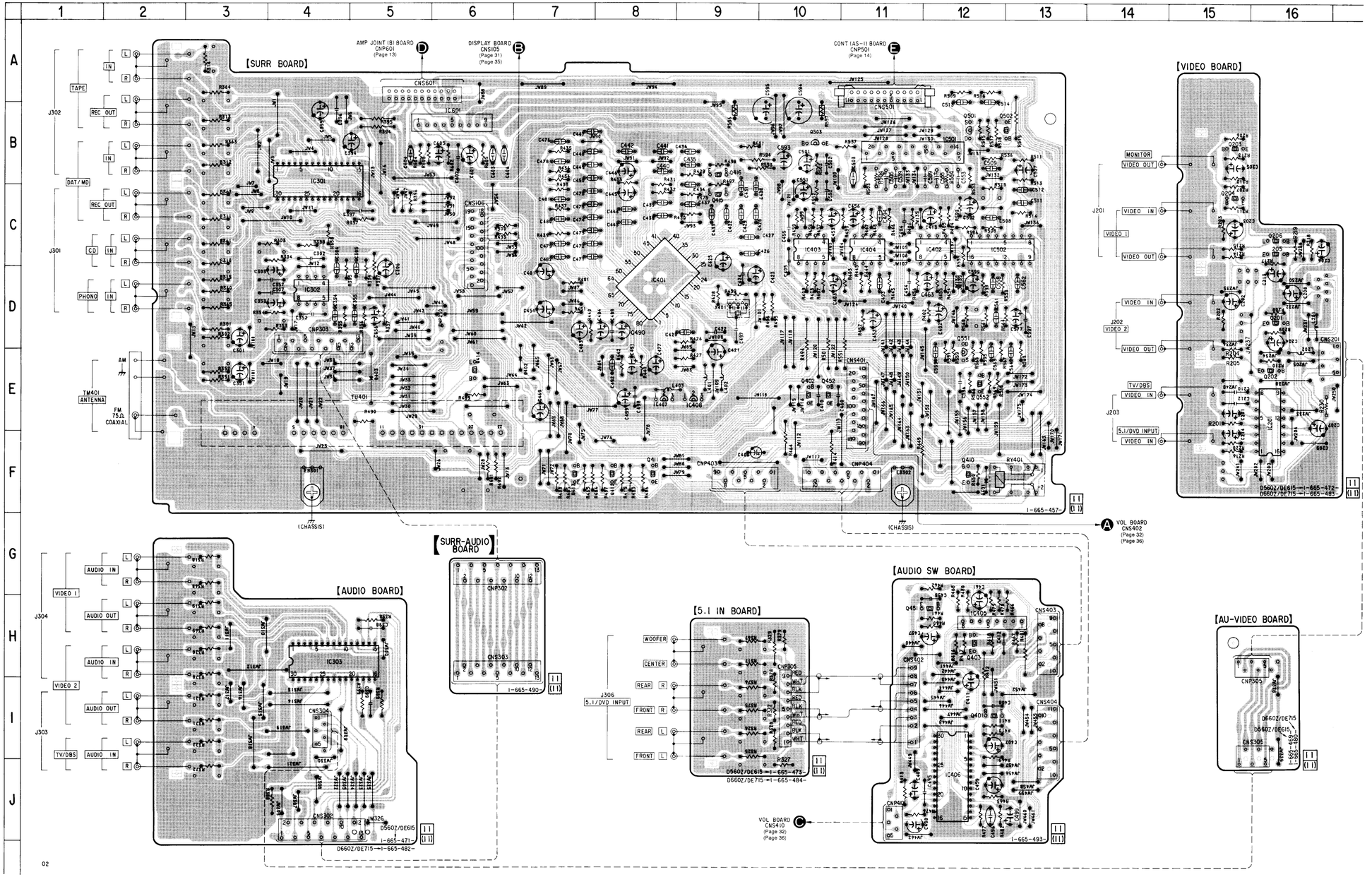
● WAVEFORM

① 4.4 Vp-p 4MHz

IC401 ㉒ OUT

Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B– : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM



● SEMICONDUCTOR LOCATION

Ref. No.	Location
D401	F-12
D402	E-7
D403	E-5
IC201	E-16
IC301	B-4
IC302	D-4
IC303	H-4
IC401	D-8
IC402	C-12
IC403	C-10
IC404	C-11
IC405	H-12
IC406	J-12
IC407	E-8
IC408	E-9
IC501	B-11
IC502	C-12
IC601	B-6
Q201	D-16
Q202	E-16
Q203	B-15
Q204	C-15
Q205	C-16
Q206	C-16
Q401	I-12
Q402	E-10
Q403	H-12
Q410	F-12
Q411	F-8
Q412	F-8
Q413	F-7
Q414	E-6
Q415	C-9
Q416	B-9
Q417	
Q418	
Q451	H-12
Q452	E-10
Q501	B-12
Q502	B-13
Q503	B-10
Q551	E-12
Q552	E-12

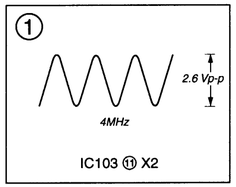
Note:

- ○— : parts extracted from the component side.
- : Pattern on the side which is seen.

2-7. SCHEMATIC DIAGRAM – DISPLAY SECTION (STR-D560Z/DE615) –

● Refer to page 43 for IC Block Diagrams.

● WAVEFORM



Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- FW : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

•Abbreviation
CND : Canadian
AUS : Australian

【DISPLAY BOARD】

IC101 REMOTE CONTROL RECEIVER

IC101 NJL55H400

FL101 LIQUID CRYSTAL DISPLAY

IC103 μPD78D2050F SYSTEM

IC106 VOLUME MOTOR DRIVE

IC106 BA6208

Q101, 121 RESET

Q102, 103, 104 LED DRIVE

Q105 BA1F4M LED DRIVE

Q113-115 SEL6810A

Q101-108 SEL6810A

Q111 SEL6810A

Q117 SEL6810A

Q103 BA1F4M

Q104 BA1F4M

【BALANCE BOARD】

【L.B.SW BOARD】

【VOL BOARD】

【SW BOARD】

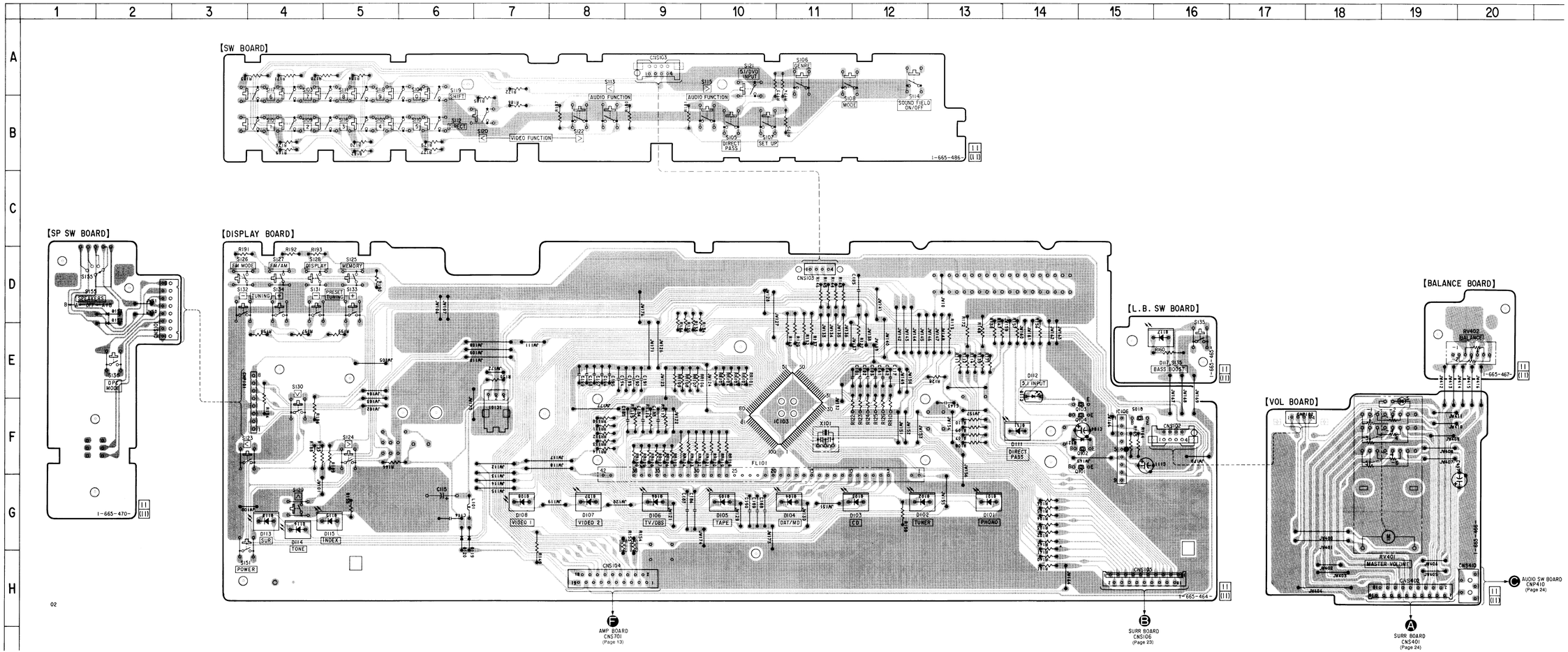
【SP SW BOARD】

CNS104 → (F) AMP BOARD CNS701 (Page 16)

CNS105 → (B) SURR BOARD CNS106 (Page 20)

CNS401 → (A) SURR BOARD CNS401 (Page 22)

CNS410 → (C) AUDIO SW BOARD CNP410 (Page 22)



- SEMICONDUCTOR LOCATION

Ref. No.	Location
D101	G-13
D102	G-12
D103	G-12
D104	G-11
D105	G-10
D106	G-9
D107	G-8
D108	G-7
D111	F-14
D112	E-14
D113	G-4
D114	G-4
D115	G-5
D117	E-16
D119	G-6
D120	G-6
D121	F-15
D152	D-2
D153	D-2
IC101	F-7
IC103	F-11
IC106	F-15
Q101	F-15
Q102	F-15
Q103	F-15
Q104	F-15
Q105	F-15

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

•Abbreviation
CND : Canadian
AUS : Australian

2-9. PRINTED WIRING BOARDS – DISPLAY SECTION (STR-D660Z/DE715) –

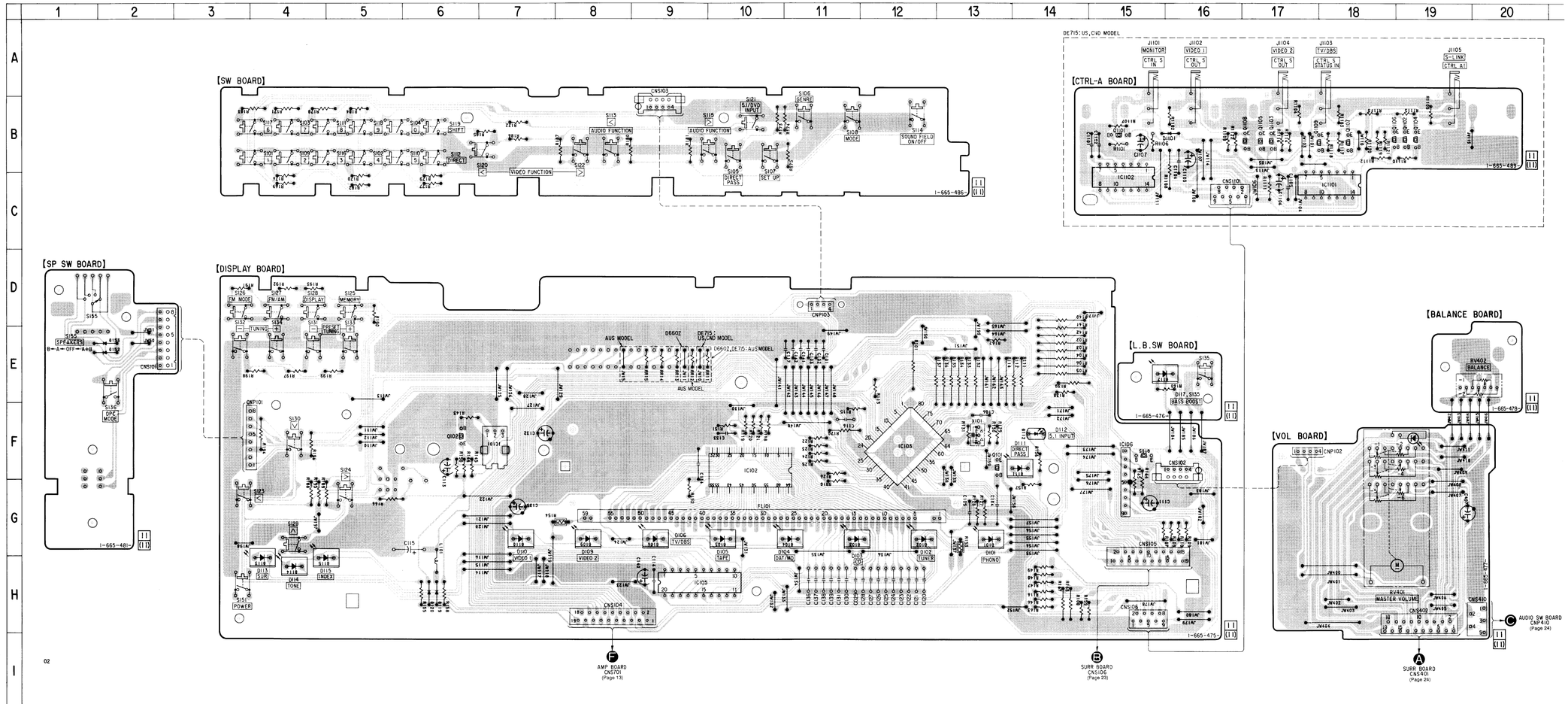
• SEMICONDUCTOR LOCATION

Ref. No.	Location
D101	G-13
D102	G-12
D103	G-11
D104	G-11
D105	G-10
D106	G-9
D109	G-8
D110	G-7
D111	F-14
D112	F-14
D113	H-4
D114	H-4
D115	H-4
D117	E-15
D119	H-6
D120	H-6
D152	E-2
D153	E-2
D1101	B-16
IC101	F-7
IC102	F-10
IC103	F-12
IC105	H-9
IC106	F-15
IC1101	C-18
IC1102	C-15
Q101	F-13
Q102	F-6
Q105	F-15
Q1101	B-15
Q1102	B-19
Q1103	B-17
Q1104	B-19
Q1105	B-17
Q1106	B-18
Q1107	B-18
Q1108	B-17
Q1109	B-18

Note:

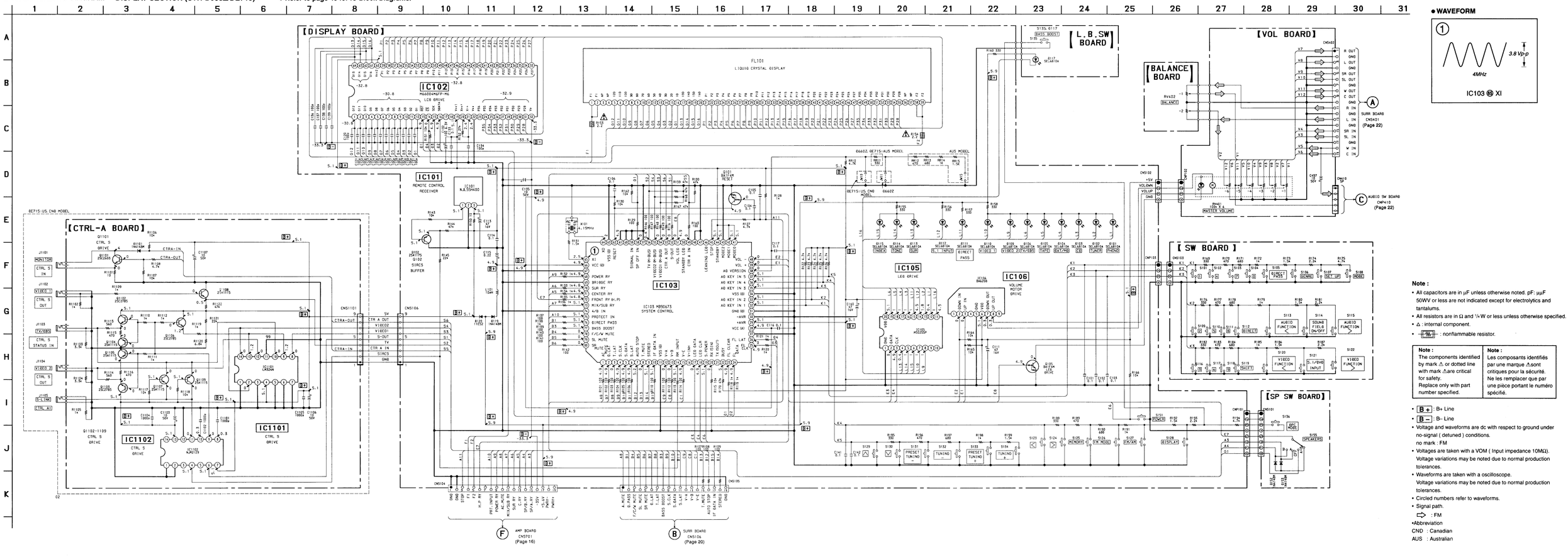
- ○— : parts extracted from the component side.
- ▨▨▨▨ : Pattern on the side which is seen.

•Abbreviation
CND : Canadian
AUS : Australian



2-10. SCHEMATIC DIAGRAM – DISPLAY SECTION (STR-D660Z/DE715) –

● Refer to page 43 for IC Block Diagrams.



● WAVEFORM

Note :

- All capacitors are in µF unless otherwise noted. pF: µµF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

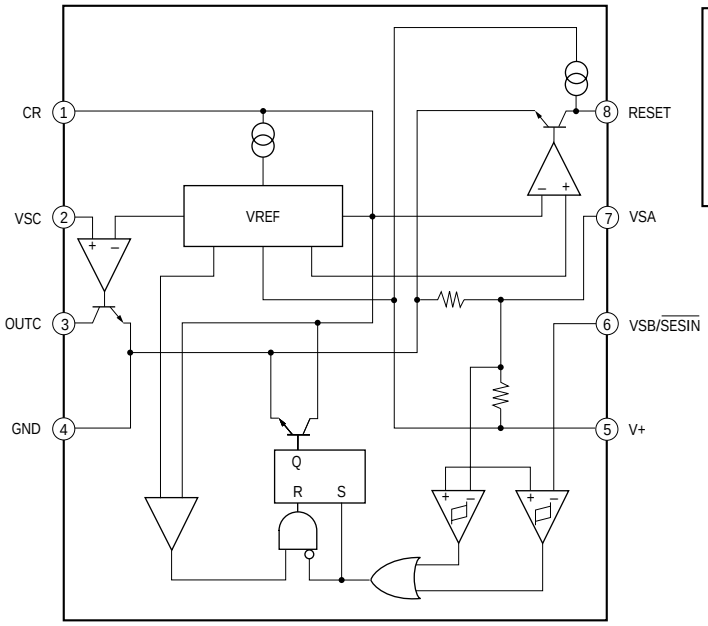
Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B– : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

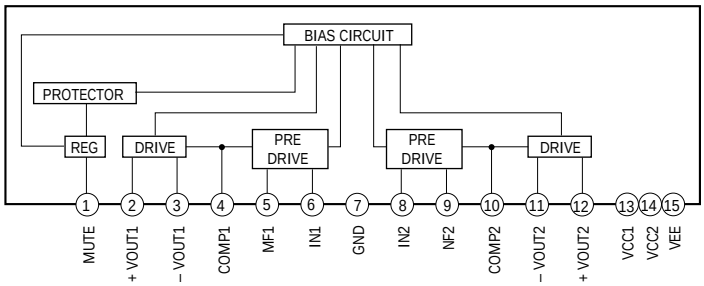
•Abbreviation
CND : Canadian
AUS : Australian

● IC BLOCK DIAGRAMS (AMP)

IC901 NJM2103D

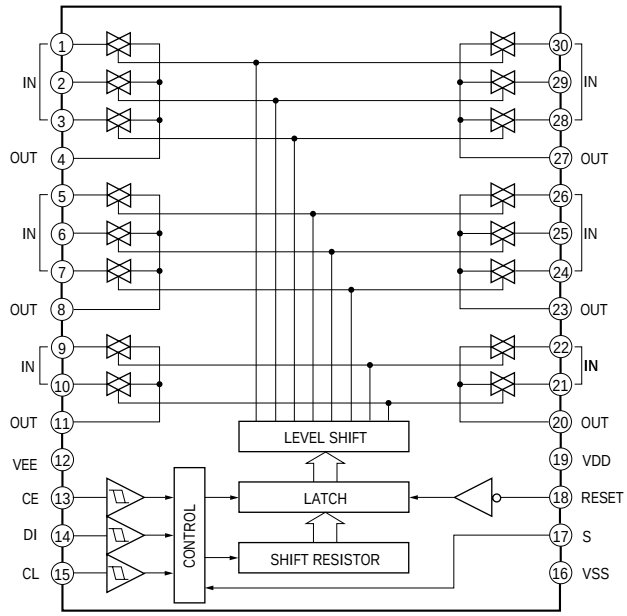


IC701 uPC2581V

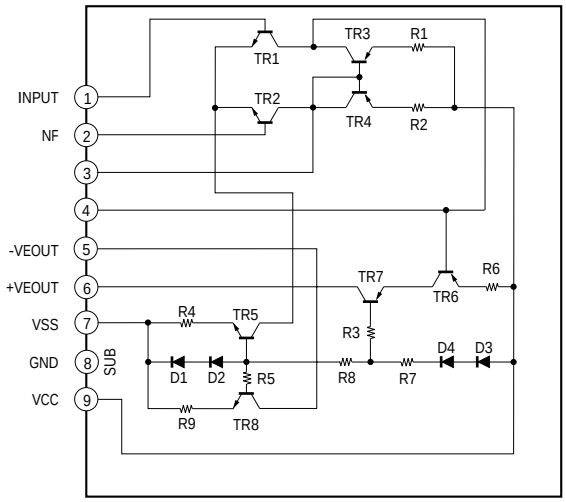


● IC BLOCK DIAGRAMS (SURROUND)

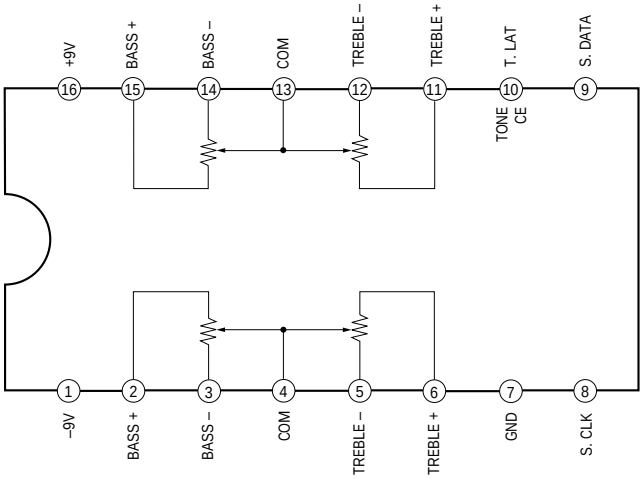
IC301, IC303 LC7822



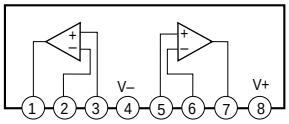
IC601 STK350-230



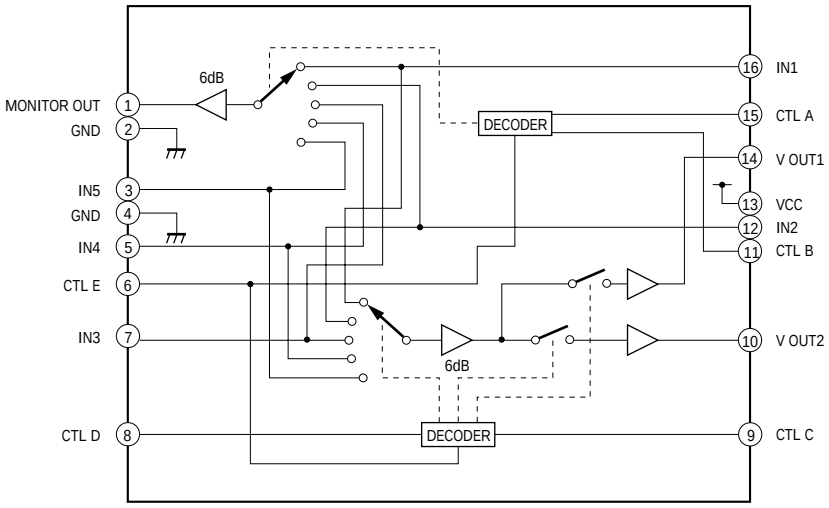
IC502 TC9184P



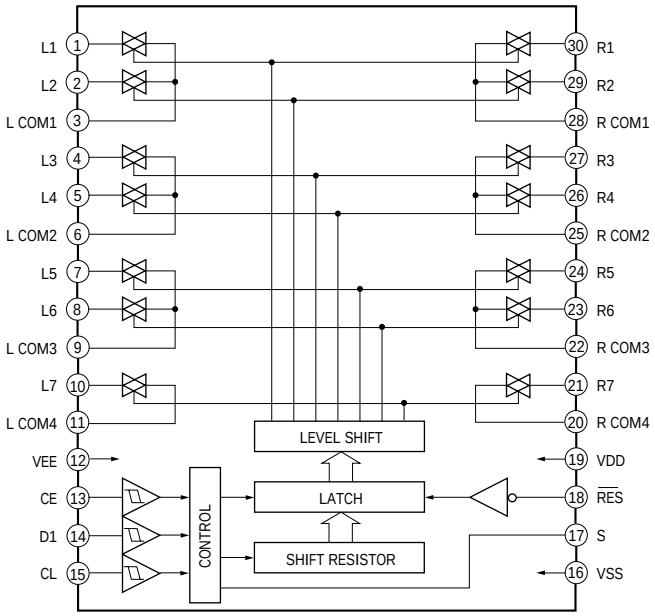
IC405 M5218AL



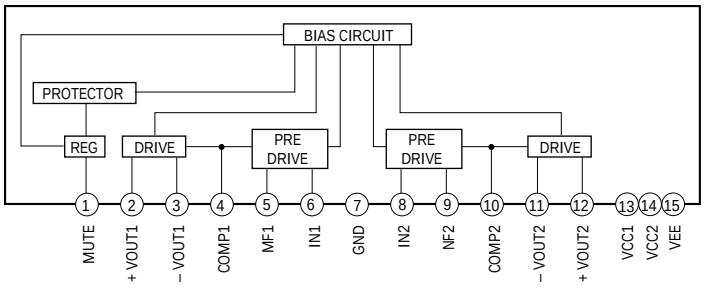
IC201 SN761200



IC406 LC7823

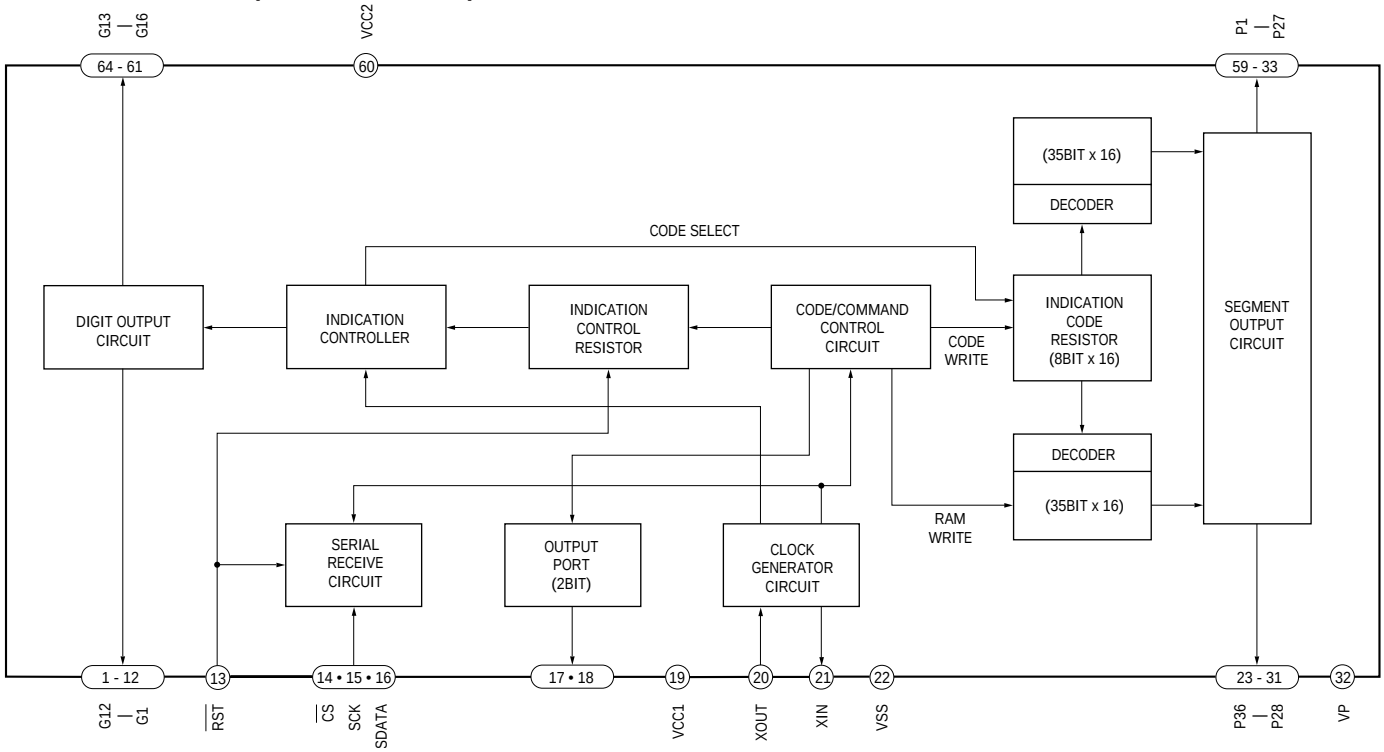


IC501 uPC2581V

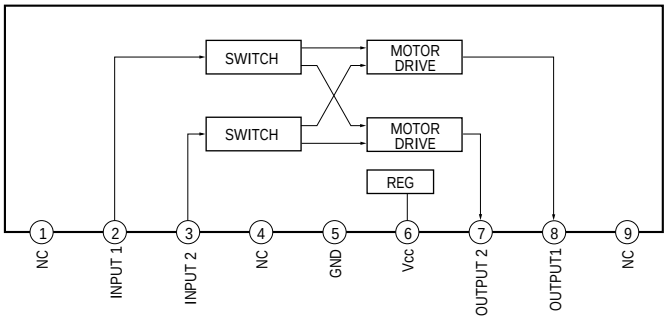


● IC BLOCK DIAGRAMS (DISPLAY)

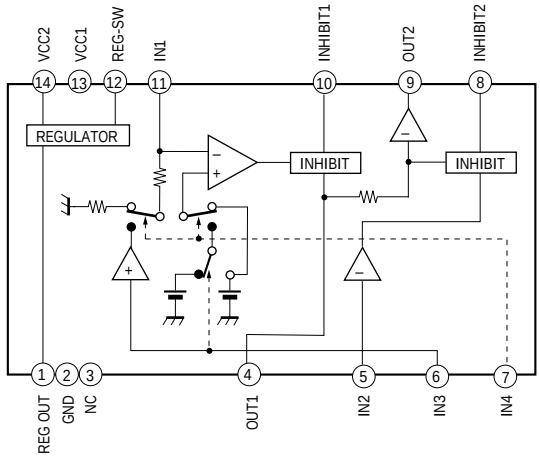
IC102 M66004FP-M6 (STR-D660Z/DE715)



IC106 BA6208 (STR-D550Z/D660Z/DE615/DE715)



IC1102 NJM2129D (STR-D660Z/DE715)



SECTION 3
EXPLODED VIEWS

NOTE :

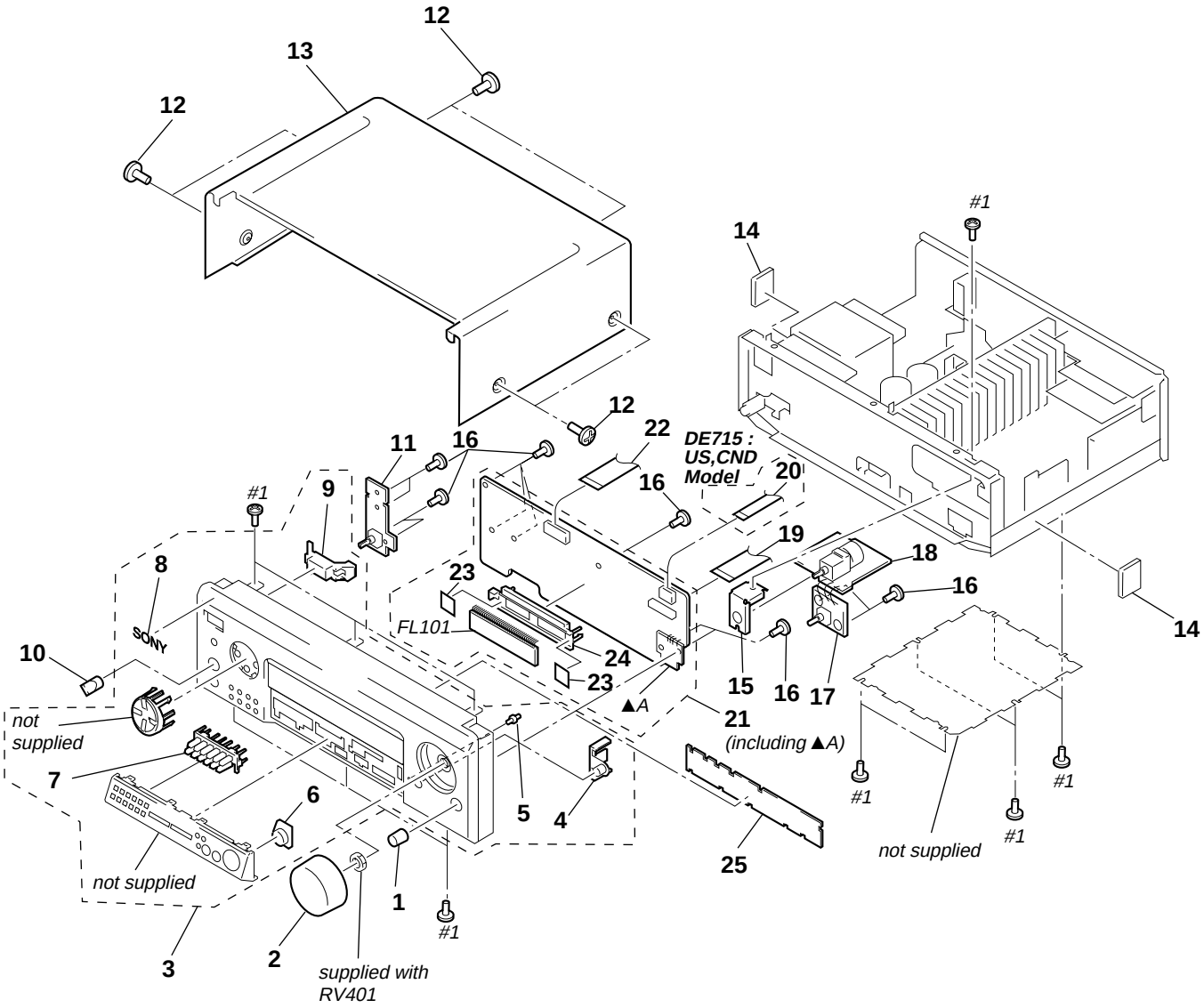
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. FRONT PANEL SECTION

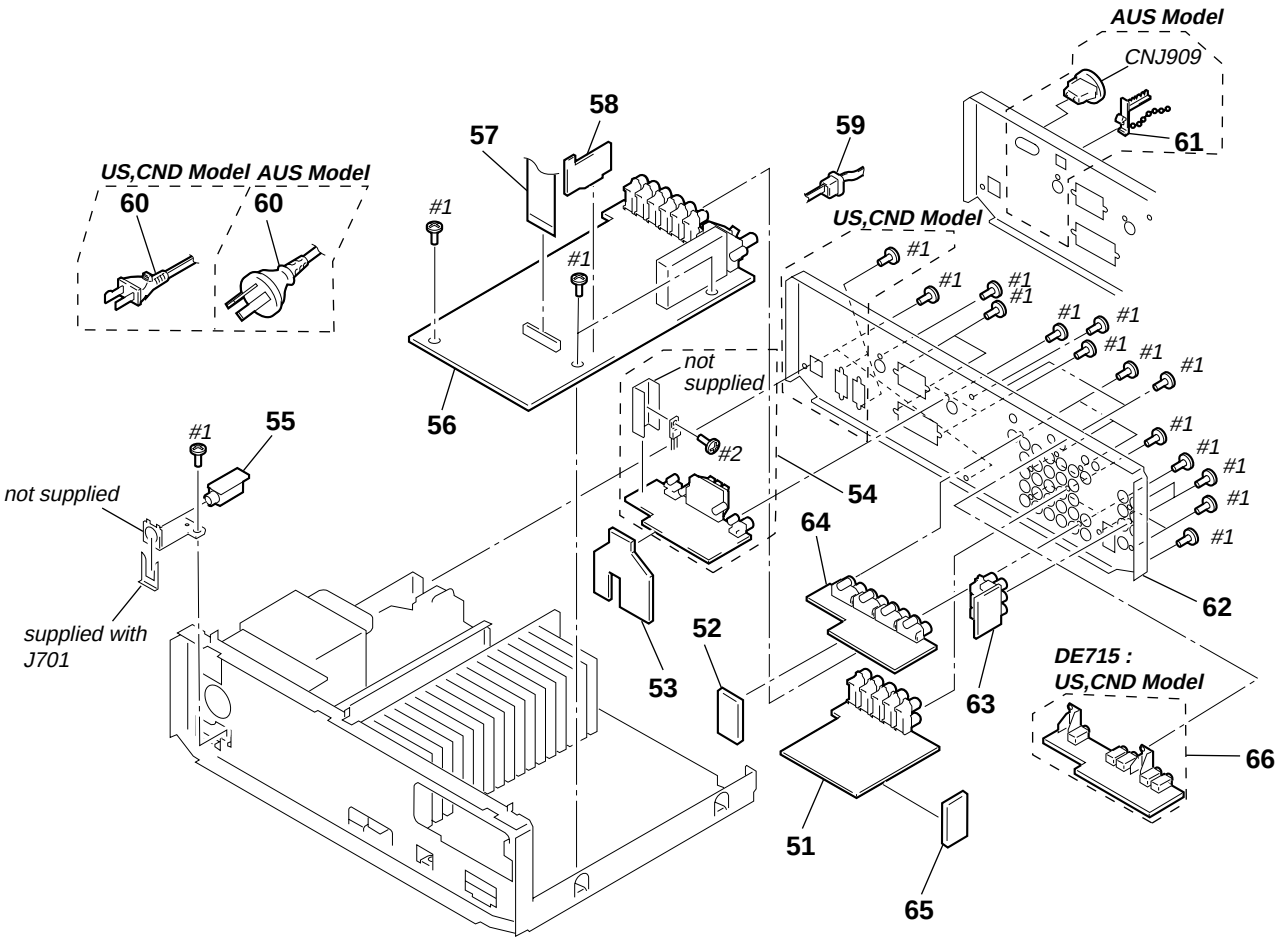
▲*A : L.B. SW board*



Ref. No.	Part No.	Description	Remark
1	4-980-639-01	KNOB (R14)	
2	X-4946-873-1	KNOB (R48) ASSY	
3	X-4948-324-1	PANEL ASSY, FRONT (DE615)	
3	X-4948-325-1	PANEL ASSY, FRONT (D560Z)	
3	X-4948-328-1	PANEL ASSY, FRONT (DE715:US,CND)	
3	X-4948-329-1	PANEL ASSY, FRONT (D660Z)	
3	X-4948-557-1	PANEL ASSY, FRONT (DE715:AUS)	
4	4-989-850-01	BUTTON (BB)	
5	4-989-842-01	INDICATOR (BB)	
6	4-989-852-01	RING (SUR)	
7	4-989-846-01	BUTTON (12)	
8	3-008-600-11	EMBLEM (5-AR), SONY	
9	4-989-843-01	BUTTON (P-T)	
10	4-957-383-01	KNOB (F14)	
* 11	1-665-481-11	SP.SW BOARD (D660Z/DE715)	
* 11	1-665-470-11	SP.SW BOARD (D560Z/DE615)	
12	3-704-366-01	SCREW (CASE) (M3X8)	
* 13	4-982-682-01	CASE (414532)	
14	4-985-642-01	CUSHION	
* 15	4-989-878-01	BRACKET (VOL)	
16	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
* 17	1-665-478-11	BALANCE BOARD (D660Z/DE715)	
* 17	1-665-467-11	BALANCE BOARD (D560Z/DE615)	
* 18	1-665-477-11	VOL BOARD (D660Z/DE715)	
* 18	1-665-466-11	VOL BOARD (D560Z/DE615)	
19	1-773-130-11	WIRE (FLAT TYPE) (19 CORE) (100mm)	
20	1-769-928-11	WIRE (FLAT TYPE) (9 CORE) (DE715:US,CND)	
* 21	A-4392-893-A	DISPLAY BOARD, COMPLETE (D560Z/DE615)	
* 21	A-4392-918-A	DISPLAY BOARD, COMPLETE (DE715:US,CND)	
* 21	A-4392-919-A	DISPLAY BOARD, COMPLETE (DE715:AUS)	
* 21	A-4392-942-A	DISPLAY BOARD, COMPLETE (D660Z)	
22	1-773-115-11	WIRE (FLAT TYPE) (19 CORE) (320mm)	
* 23	4-921-941-01	CUSHION (FL)	
* 24	3-386-245-11	HOLDER (FL) (D560Z/DE615)	
* 24	4-981-656-01	HOLDER (C), FL INDICATION TUBE	(D660Z/DE715)
* 25	A-4392-908-A	SW BOARD, COMPLETE	
FL101	1-517-519-11	INDICATOR TUBE, FLUORESCENT	(D660Z/DE715)
FL101	1-517-672-11	INDICATOR TUBE, FLUORESCENT	(D560Z/DE615)

3-2. BACK PANEL SECTION

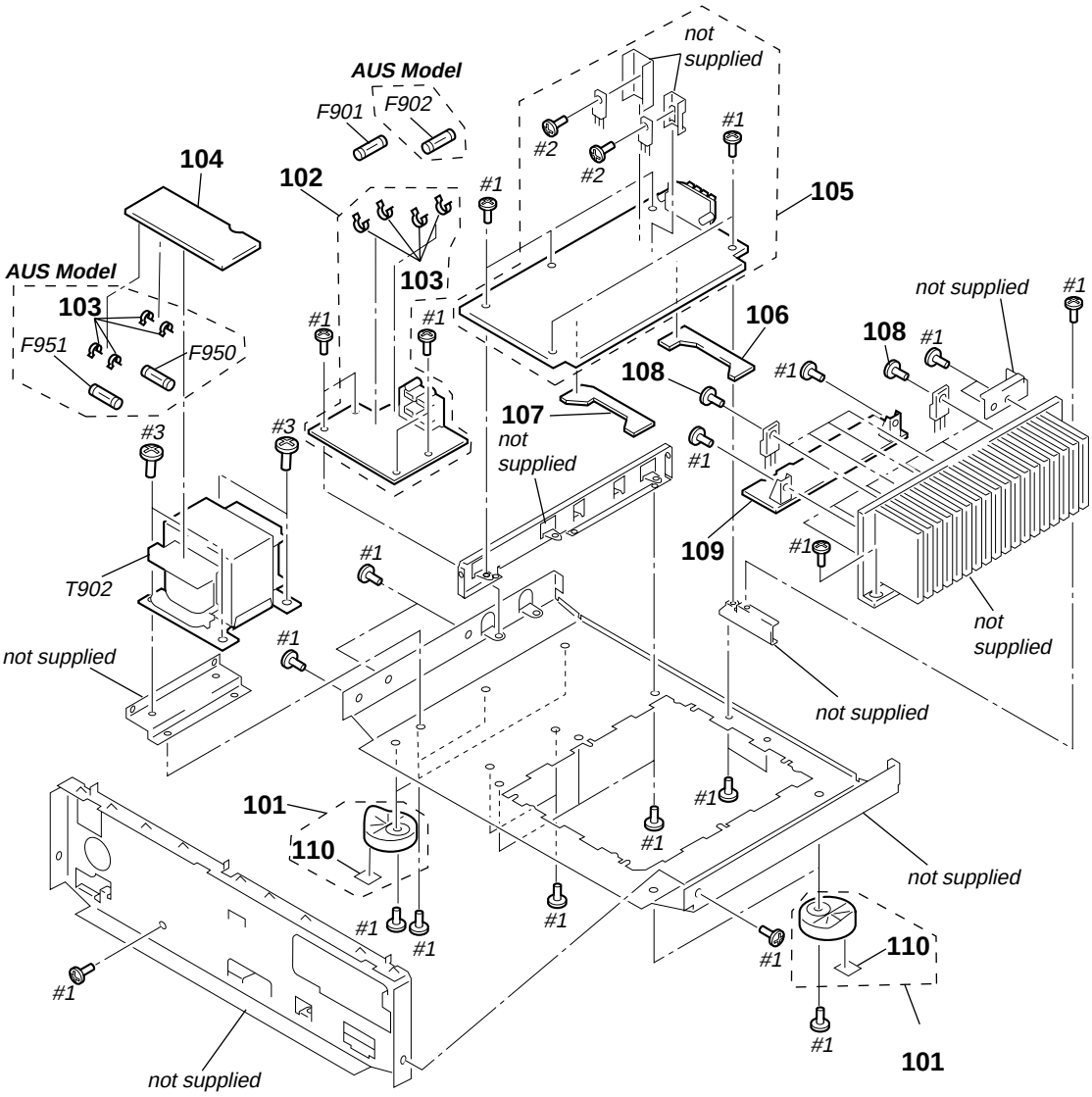


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	A-4392-896-A	AUDIO BOARD, COMPLETE (D560Z/DE615)	
* 51	A-4392-923-A	AUDIO BOARD, COMPLETE (D660Z/DE715)	
* 52	1-665-480-11	AU-VIDEO BOARD (D660Z/DE715)	
* 52	1-665-469-11	AU-VIDEO BOARD (D560Z/DE615)	
* 53	1-665-492-11	S-A-SP BOARD	
* 54	A-4392-913-A	SP BOARD, COMPLETE (DE615/DE715:US,CND)	
* 54	A-4392-936-A	SP BOARD, COMPLETE (DE715:AUS)	
* 54	A-4392-941-A	SP BOARD, COMPLETE (D560Z/D660Z)	
* 55	1-665-468-11	HP BOARD (D560Z/DE615)	
* 55	1-665-479-11	HP BOARD (D660Z/DE715)	
* 56	A-4392-905-A	SURR BOARD, COMPLETE (US,CND)	
* 56	A-4392-931-A	SURR BOARD, COMPLETE (AUS)	
57	1-773-108-11	WIRE (FLAT TYPE) (19 CORE) (160mm)	
* 58	A-4392-917-A	SW AUDIO BOARD, COMPLETE	
* 59	3-703-244-00	BUSHING (2104), CORD	
⚠60	1-696-847-11	CORD, POWER (AUS)	

Ref. No.	Part No.	Description	Remark
⚠60	1-769-743-11	CORD, POWER (US,CND)	
61	4-956-370-12	BAND, PLUG FIXED (AUS)	
* 62	4-989-883-01	PANEL, BACK (DE615:US)	
* 62	4-989-883-11	PANEL, BACK (DE615:CND)	
* 62	4-989-883-21	PANEL, BACK (D560Z)	
* 62	4-989-883-31	PANEL, BACK (DE715:US)	
* 62	4-989-883-41	PANEL, BACK (DE715:CND)	
* 62	4-989-883-51	PANEL, BACK (DE715:AUS)	
* 62	4-989-883-61	PANEL, BACK (D660Z)	
* 63	1-665-484-11	5.1 IN BOARD (D660Z/DE715)	
* 63	1-665-473-11	5.1 IN BOARD (D560Z/DE615)	
* 64	A-4392-897-A	VIDEO BOARD, COMPLETE (D560Z/DE615)	
* 64	A-4392-924-A	VIDEO BOARD, COMPLETE (D660Z/DE715)	
* 65	1-665-490-11	SURR-AUDIO BOARD	
* 66	A-4392-933-A	CTRL-A BOARD, COMPLETE (DE715:US,CND)	
⚠CNJ909	1-251-416-11	OUTLET, A.C. (AUS)	

3-3. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	X-4947-207-1	FOOT ASSY (F50150S) (AUS)	
101	X-4947-208-1	FOOT ASSY (F50150S) (US,CND)	
* 102	A-4392-915-A	STAND BY BOARD, COMPLETE (US,CND)	
* 102	A-4392-939-A	STAND BY BOARD, COMPLETE (AUS)	
103	1-533-217-31	HOLDER, FUSE	
* 104	1-665-487-11	SECONDARY BOARD	
* 105	A-4392-903-A	AMP BOARD, COMPLETE (US,CND)	
* 105	A-4392-930-A	AMP BOARD, COMPLETE (AUS)	
* 106	1-665-463-11	AMP JOINT (B) BOARD	
* 107	1-665-458-11	CONT (AS-1) BOARD	
108	3-905-609-01	SCREW (TRANSISTOR)	
* 109	A-4392-894-A	REAR AMP BOARD, COMPLETE (D560Z/DE615)	
* 109	A-4392-920-A	REAR AMP BOARD, COMPLETE (D660Z/DE715:US,CND)	
* 109	A-4392-922-A	REAR AMP BOARD, COMPLETE (DE715:AUS)	
110	4-977-358-11	CUSHION (8X12.5) (US,CND)	
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
⚠F901	1-533-310-11	FUSE, GLASS CYLINDRICAL(DIA.5) (6.3A/125V) (US,CND)	
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V) (AUS)	
⚠F950	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
⚠F951	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
⚠T902	1-431-274-11	TRANSFORMER, POWER (US,CND)	
⚠T902	1-431-288-11	TRANSFORMER, POWER (AUS)	

5.1 IN **AMP**

SECTION 4
ELECTRICAL PARTS LIST

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-665-484-11	5.1 IN BOARD (D660Z/DE715)			
*	1-665-473-11	5.1 IN BOARD (D560Z/DE615)			
		**********			
		< CONNECTOR >			
CNP305	1-564-524-11	PLUG, CONNECTOR 9P			
		< JACK >			
J306	1-779-355-11	JACK, PIN 6P (5.1/DVD INPUT)			
		< RESISTOR >			
R317	1-249-421-11	CARBON	2.2K	5%	1/4W
R325	1-249-421-11	CARBON	2.2K	5%	1/4W
R326	1-249-421-11	CARBON	2.2K	5%	1/4W
R327	1-249-429-11	CARBON	10K	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-421-11	CARBON	2.2K	5%	1/4W
R375	1-249-421-11	CARBON	2.2K	5%	1/4W
R376	1-249-421-11	CARBON	2.2K	5%	1/4W
R377	1-249-429-11	CARBON	10K	5%	1/4W
R378	1-249-429-11	CARBON	10K	5%	1/4W
R379	1-249-429-11	CARBON	10K	5%	1/4W
**********					
*	A-4392-903-A	AMP BOARD, COMPLETE (US,CND)			
*	A-4392-930-A	AMP BOARD, COMPLETE (AUS)			
		**********			
*	1-537-738-21	TERMINAL, EARTH			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C520	1-126-967-11	ELECT	47uF	20%	16V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C570	1-126-967-11	ELECT	47uF	20%	16V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V

Ref. No.	Part No.	Description			Remark
C590	1-126-935-11	ELECT	470uF	20%	6.3V
C598	1-126-965-11	ELECT	22uF	20%	50V
C620	1-126-967-11	ELECT	47uF	20%	16V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C803	1-109-932-11	ELECT	10000uF	20%	71V
C804	1-109-932-11	ELECT	10000uF	20%	71V
C807	1-126-967-11	ELECT	47uF	20%	16V
C808	1-126-967-11	ELECT	47uF	20%	16V
C811	1-126-952-11	ELECT	1000uF	20%	35V
C812	1-126-951-11	ELECT	470uF	20%	35V
C817	1-126-967-11	ELECT	47uF	20%	50V
C818	1-126-967-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
CNP701	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP702	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P			
CNS502	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNS602	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNS701	1-569-323-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D152	8-719-987-63	DIODE 1N4148M			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-010-06	DIODE UZ-2.2BS			
D503	8-719-010-06	DIODE UZ-2.2BS			
D504	8-719-987-63	DIODE 1N4148M			
D505	8-719-987-63	DIODE 1N4148M			
D506	8-719-987-63	DIODE 1N4148M			
D545	8-719-987-63	DIODE 1N4148M			
D546	8-719-987-63	DIODE 1N4148M			
D547	8-719-987-63	DIODE 1N4148M			
D548	8-719-815-85	DIODE 1S1585			
D549	8-719-815-85	DIODE 1S1585			
D551	8-719-987-63	DIODE 1N4148M			
D552	8-719-010-06	DIODE UZ-2.2BS			
D553	8-719-010-06	DIODE UZ-2.2BS			
D554	8-719-987-63	DIODE 1N4148M			
D555	8-719-987-63	DIODE 1N4148M			
D556	8-719-987-63	DIODE 1N4148M			
D601	8-719-987-63	DIODE 1N4148M			
D602	8-719-010-06	DIODE UZ-2.2BS			
D603	8-719-010-06	DIODE UZ-2.2BS			
D604	8-719-987-63	DIODE 1N4148M			
D608	8-719-987-63	DIODE 1N4148M			

Ref. No.	Part No.	Description	Remark
D611	8-719-987-63	DIODE 1N4148M	
D647	8-719-987-63	DIODE 1N4148M	
D648	8-719-987-63	DIODE 1N4148M	
D651	8-719-987-63	DIODE 1N4148M	
D711	8-719-987-63	DIODE 1N4148M	
D716	8-719-987-63	DIODE 1N4148M	
D807	8-719-934-22	DIODE HZS30-2L	
		< IC >	
IC801	8-759-391-87	IC BA78M12P	
IC803	8-759-604-45	IC M5F79M12	
		< COIL >	
L501	1-420-872-00	COIL, AIR-CORE	
L551	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q510	8-729-900-63	TRANSISTOR DTA124ES	
Q511	8-729-900-63	TRANSISTOR DTA124ES	
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q560	8-729-900-63	TRANSISTOR DTA124ES	
Q561	8-729-900-63	TRANSISTOR DTA124ES	
Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q601	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q612	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q613	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q614	8-729-201-53	TRANSISTOR 2SA1015-GR (US,CND)	
Q614	8-729-140-82	TRANSISTOR 2SA988-PAFAEA (AUS)	
Q615	8-729-900-36	TRANSISTOR DTC124ES	
Q616	8-729-900-36	TRANSISTOR DTC124ES	
Q617	8-729-900-36	TRANSISTOR DTC124ES	
Q618	8-729-900-63	TRANSISTOR DTA124ES	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R521	1-247-840-00	CARBON	2.4K	5%	1/4W	
R523	1-249-414-11	CARBON	560	5%	1/4W	
⚠R524	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R525	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R526	1-233-352-41	ENCAPSULATED COMPONENT	0.22X2		2W	F
R527	1-247-850-11	CARBON	6.2K	5%	1/4W	
R528	1-249-419-11	CARBON	1.5K	5%	1/4W	
R529	1-247-866-11	CARBON	30K	5%	1/4W	
R530	1-249-419-11	CARBON	1.5K	5%	1/4W	
R531	1-249-433-11	CARBON	22K	5%	1/4W	
R532	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R533	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R534	1-249-389-11	CARBON	4.7	5%	1/4W	F
R535	1-249-431-11	CARBON	15K	5%	1/4W	
R539	1-249-427-11	CARBON	6.8K	5%	1/4W	
R540	1-249-417-11	CARBON	1K	5%	1/4W	
R541	1-249-435-11	CARBON	33K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R547	1-249-425-11	CARBON	4.7K	5%	1/4W	
R548	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R549	1-249-393-11	CARBON	10	5%	1/4W	
R550	1-249-429-11	CARBON	10K	5%	1/4W	
R571	1-247-840-00	CARBON	2.4K	5%	1/4W	
R573	1-249-414-11	CARBON	560	5%	1/4W	
⚠R574	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R575	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R576	1-233-352-41	ENCAPSULATED COMPONEN	0.22X2		2W	F
R577	1-247-850-11	CARBON	6.2K	5%	1/4W	
R578	1-249-419-11	CARBON	1.5K	5%	1/4W	
R579	1-247-866-11	CARBON	30K	5%	1/4W	
R580	1-249-419-11	CARBON	1.5K	5%	1/4W	
R581	1-249-433-11	CARBON	22K	5%	1/4W	
R582	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R584	1-249-389-11	CARBON	4.7	5%	1/4W	F
R585	1-249-431-11	CARBON	15K	5%	1/4W	
R586	1-249-429-11	CARBON	10K	5%	1/4W	
R587	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R588	1-249-393-11	CARBON	10	5%	1/4W	F
R589	1-249-420-11	CARBON	1.8K	5%	1/4W	
R590	1-249-420-11	CARBON	1.8K	5%	1/4W	
R597	1-249-420-11	CARBON	1.8K	5%	1/4W	
R598	1-249-420-11	CARBON	1.8K	5%	1/4W	
R621	1-247-840-00	CARBON	2.4K	5%	1/4W	
R623	1-249-414-11	CARBON	560	5%	1/4W	
⚠R624	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R625	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R626	1-233-352-41	ENCAPSULATED COMPONENT	0.22X2		2W	F
R627	1-247-850-11	CARBON	6.2K	5%	1/4W	
R628	1-249-419-11	CARBON	1.5K	5%	1/4W	
R632	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R640	1-216-426-11	METAL OXIDE	82	5%	1W	F
R641	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R642	1-215-889-00	METAL OXIDE	330	5%	2W	F
R643	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R644	1-215-890-11	METAL OXIDE	470	5%	2W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R645	1-249-441-11	CARBON	100K	5%	1/4W
R650	1-249-425-11	CARBON	4.7K	5%	1/4W
R651	1-249-429-11	CARBON	10K	5%	1/4W
⚠R652	1-249-393-11	CARBON	10	5%	1/4W F
⚠R739	1-215-868-00	METAL OXIDE	680	5%	1W F
⚠R765	1-249-393-11	CARBON	10	5%	1/4W F
⚠R789	1-215-868-00	METAL OXIDE	680	5%	1W F
⚠R802	1-249-401-11	CARBON	47	5%	1/4W F
R803	1-247-843-11	CARBON	3.3K	5%	1/4W
		< RELAY >			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
		< TERMINAL >			
TM601	1-537-922-11	TERMINAL BOARD (SP) (FRONT SPEAKERS)			
**********					
*	1-665-463-11	AMP JOINT (B) BOARD			
		**********			
		< CONNECTOR >			
CNP601	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP602	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	1-665-480-11	AU-VIDEO BOARD (D660Z/DE715)			
*	1-665-469-11	AU-VIDEO BOARD (D560Z/DE615)			
		**********			
		< CONNECTOR >			
CNP305	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
CNS305	1-750-179-11	SOCKET, CONNECTOR 5P			
**********					
*	A-4392-896-A	AUDIO BOARD, COMPLETE (D560Z/DE615)			
*	A-4392-923-A	AUDIO BOARD, COMPLETE (D660Z/DE715)			
		**********			
		< CAPACITOR >			
C398	1-162-282-31	CERAMIC	100PF	10%	50V
C399	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNS302	1-695-095-11	SOCKET, CONNECTOR 13P			
CNS304	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
		< IC >			
IC303	8-759-805-14	IC LC7822			
		< JACK >			
J303	1-573-029-31	JACK, PIN 4P (VIDEO 2 AUDIO OUT,TV/DBS AUDIO IN/OUT)			
J304	1-770-015-11	JACK, PIN 6P (VIDEO 1 AUDIO IN/OUT,VIDEO 2 AUDIO IN)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R318	1-249-417-11	CARBON	1K	5%	1/4W
R319	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R368	1-249-417-11	CARBON	1K	5%	1/4W
R369	1-249-417-11	CARBON	1K	5%	1/4W
R370	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R388	1-249-437-11	CARBON	47K	5%	1/4W
R389	1-249-437-11	CARBON	47K	5%	1/4W
R398	1-249-417-11	CARBON	1K	5%	1/4W
R399	1-249-425-11	CARBON	4.7K	5%	1/4W
**********					
*	A-4392-917-A	AUDIO SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C407	1-126-795-11	ELECT	10uF	20%	50V
C408	1-164-159-11	CERAMIC	0.1uF		50V
C409	1-126-795-11	ELECT	10uF	20%	50V
C411	1-126-795-11	ELECT	10uF	20%	50V
C412	1-164-159-11	CERAMIC	0.1uF		50V
C457	1-126-795-11	ELECT	10uF	20%	50V
C458	1-164-159-11	CERAMIC	0.1uF		50V
C459	1-126-795-11	ELECT	10uF	20%	50V
C461	1-126-795-11	ELECT	10uF	20%	50V
C495	1-162-294-31	CERAMIC	0.001uF	10%	50V
C496	1-162-282-31	CERAMIC	100PF	10%	50V
C498	1-126-786-11	ELECT	47uF	20%	16V
C499	1-126-786-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CNP410	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
CNS403	1-695-093-11	SOCKET, CONNECTOR 9P			
CNS404	1-695-094-11	SOCKET, CONNECTOR 11P			
		< IC >			
IC405	8-759-634-50	IC M5218AL			
IC406	8-759-805-15	IC LC7823			
		< TRANSISTOR >			
Q401	8-729-922-37	TRANSISTOR 2SD2144S			
Q403	8-729-922-37	TRANSISTOR 2SD2144S			
Q451	8-729-922-37	TRANSISTOR 2SD2144S			
		< RESISTOR >			
R410	1-249-441-11	CARBON	100K	5%	1/4W
R411	1-249-417-11	CARBON	1K	5%	1/4W
R412	1-249-425-11	CARBON	4.7K	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R416	1-249-441-11	CARBON	100K	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W
R418	1-249-425-11	CARBON	4.7K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R460	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-417-11	CARBON	1K	5%	1/4W
R462	1-249-425-11	CARBON	4.7K	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R466	1-249-441-11	CARBON	100K	5%	1/4W
R467	1-249-417-11	CARBON	1K	5%	1/4W
R468	1-249-417-11	CARBON	1K	5%	1/4W
R469	1-249-441-11	CARBON	100K	5%	1/4W
R476	1-249-425-11	CARBON	4.7K	5%	1/4W
R477	1-249-417-11	CARBON	1K	5%	1/4W
R478	1-249-441-11	CARBON	100K	5%	1/4W
R479	1-249-429-11	CARBON	10K	5%	1/4W
R480	1-249-441-11	CARBON	100K	5%	1/4W
R481	1-247-807-31	CARBON	100	5%	1/4W
R482	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	1-665-478-11	BALANCE BOARD (D660Z/DE715)			
*	1-665-467-11	BALANCE BOARD (D560Z/DE615)			
		**********			
		< VARIABLE RESISTOR >			
RV402	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)			
**********					
*	1-665-458-11	CONT (AS-1) BOARD			
		**********			
		< CONNECTOR >			
CNP501	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP502	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	A-4392-933-A	CTRL-A BOARD, COMPLETE (DE715:US,CND)			
		**********			
		< CAPACITOR >			
C1101	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1102	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1103	1-126-964-11	ELECT	10uF	20%	50V
C1104	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1105	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1106	1-126-964-11	ELECT	10uF	20%	50V
C1107	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNS110	1-568-828-11	SOCKET, CONNECTOR 9P			
		< DIODE >			
D1101	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC1101	8-759-912-77	IC LM324N			
IC1102	8-759-388-26	IC NJM2129D			
		< JACK >			
J1101	1-563-330-11	JACK (MONITOR,CTRL S IN)			
J1102	1-563-330-11	JACK (VIDEO,CTRL S OUT)			
J1103	1-563-330-11	JACK (TV/DBS,CTRL S STATUS IN)			
J1104	1-563-330-11	JACK (VIDEO 2,CTRL S OUT)			

Ref. No.	Part No.	Description			Remark
J1105	1-563-330-11	JACK (S-LINK,CTRL A1)			
		< TRANSISTOR >			
Q1101	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q1102	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q1103	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q1104	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1105	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1106	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q1107	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1108	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1109	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R1101	1-249-393-11	CARBON	10	5%	1/4W
R1102	1-249-417-11	CARBON	1K	5%	1/4W
R1103	1-247-843-11	CARBON	3.3K	5%	1/4W
R1104	1-247-843-11	CARBON	3.3K	5%	1/4W
R1105	1-249-417-11	CARBON	1K	5%	1/4W
R1106	1-249-429-11	CARBON	10K	5%	1/4W
R1107	1-249-429-11	CARBON	10K	5%	1/4W
R1108	1-249-425-11	CARBON	4.7K	5%	1/4W
R1109	1-249-417-11	CARBON	1K	5%	1/4W
R1110	1-249-417-11	CARBON	1K	5%	1/4W
R1111	1-249-417-11	CARBON	1K	5%	1/4W
R1112	1-249-417-11	CARBON	1K	5%	1/4W
R1113	1-249-414-11	CARBON	560	5%	1/4W
R1114	1-249-414-11	CARBON	560	5%	1/4W
R1115	1-249-413-11	CARBON	470	5%	1/4W
R1116	1-249-413-11	CARBON	470	5%	1/4W
R1117	1-249-429-11	CARBON	10K	5%	1/4W
R1118	1-249-429-11	CARBON	10K	5%	1/4W
R1119	1-249-417-11	CARBON	1K	5%	1/4W
R1120	1-249-427-11	CARBON	6.8K	5%	1/4W
R1121	1-249-433-11	CARBON	22K	5%	1/4W
R1122	1-249-437-11	CARBON	47K	5%	1/4W
**********					
*	A-4392-893-A	DISPLAY BOARD, COMPLETE (D560Z/DE615)			
*	A-4392-942-A	DISPLAY BOARD, COMPLETE (D660Z)			
*	A-4392-918-A	DISPLAY BOARD, COMPLETE (DE715:US,CND)			
*	A-4392-919-A	DISPLAY BOARD, COMPLETE (DE715:AUS)			
		**********			
		L.B. SW BOARD			
		**********			
*	3-386-245-11	HOLDER (FL) (D560Z/DE615)			
*	4-921-941-01	CUSHION (FL)			
*	4-981-656-01	HOLDER (C), FL INDICATION TUBE			(D660Z/DE715)
		< CAPACITOR >			
C029	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-126-959-11	ELECT	0.47uF	20%	50V (D560Z/DE615)
C104	1-164-159-11	CERAMIC	0.1uF		50V (D660Z/DE715)

DISPLAY | L.B. SW

Ref. No.	Part No.	Description			Remark
C105	1-164-159-11	CERAMIC	0.1uF		50V
C106	1-164-159-11	CERAMIC	0.1uF		50V (D660Z/DE715)
C111	1-126-967-11	ELECT	47uF	20%	16V (D560Z/DE615)
C111	1-126-786-11	ELECT	47uF	20%	16V (D660Z/DE715)
C113	1-126-786-11	ELECT	47uF	20%	16V (D660Z/DE715)
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-104-905-11	CAPACITOR	0.22F		5.5V
C116	1-164-159-11	CERAMIC	0.1uF		50V (D660Z/DE715)
C117	1-164-159-11	CERAMIC	0.1uF		50V
C120	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C121	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C122	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C123	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C124	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C125	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C126	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C127	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C128	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C130	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C131	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C132	1-126-177-11	ELECT	100uF	20%	10V (D660Z/DE715)
C133	1-164-159-11	CERAMIC	0.1uF		50V (D660Z/DE715)
C134	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C135	1-126-795-11	ELECT	10uF	20%	50V (D660Z/DE715)
C136	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C137	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C138	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C139	1-162-282-31	CERAMIC	100PF	10%	50V (D660Z/DE715)
C140	1-126-786-11	ELECT	47uF	20%	16V (D660Z/DE715)
C141	1-164-159-11	CERAMIC	0.1uF		50V
C142	1-164-159-11	CERAMIC	0.1uF		50V
C143	1-164-159-11	CERAMIC	0.1uF		50V (D560Z/DE615)
C183	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C184	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C185	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C186	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C187	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C188	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C189	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C190	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C191	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C192	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C193	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C194	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C195	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C196	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C197	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C198	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
C199	1-162-282-31	CERAMIC	100PF	10%	50V (D560Z/DE615)
		< CONNECTOR >			
CNP101	1-779-365-11	CONNECTOR, PC BOARD (PLUG) 8P			
CNP103	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS102	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
* CNS104	1-568-862-11	SOCKET, CONNECTOR 19P (D560Z/DE615)			
CNS104	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P (D660Z/DE715)			
CNS105	1-568-802-11	SOCKET, CONNECTOR 19P (D560Z/DE615)			
CNS105	1-691-650-11	SOCKET, CONNECTOR 19P (D660Z/DE715)			
CNS106	1-568-441-11	SOCKET, CONNECTOR 9P (D660Z/DE715)			
		< DIODE >			
D101	8-719-313-45	LED SEL6810A-TH10 (PHONO)			
D102	8-719-313-45	LED SEL6810A-TH10 (TUNER)			
D103	8-719-313-45	LED SEL6810A-TH10 (CD)			
D104	8-719-313-45	LED SEL6810A-TH10 (DAT/MD)			
D105	8-719-313-45	LED SEL6810A-TH10 (TAPE)			
D106	8-719-313-45	LED SEL6810A-TH10 (TV/DBS)			
D107	8-719-313-45	LED SEL6810A-TH10 (VIDEO 2) (D560Z/DE615)			
D108	8-719-313-45	LED SEL6810A-TH10 (VIDEO 1) (D560Z/DE615)			
D109	8-719-313-45	LED SEL6810A-TH10 (VIDEO 2) (D660Z/DE715)			
D110	8-719-313-45	LED SEL6810A-TH10 (VIDEO 1) (D660Z/DE715)			
D111	8-719-313-45	LED SEL6810A-TH10 (DIRECT PASS)			
D112	8-719-064-63	LED SELU5823A-TP15 (5.1 INPUT)			
D113	8-719-313-45	LED SEL6810A-TH10 (SUR)			
D114	8-719-313-45	LED SEL6810A-TH10 (TONE)			
D115	8-719-313-45	LED SEL6810A-TH10 (INDEX)			
D117	8-719-313-45	LED SEL6810A-TH10 (BASS BOOST)			
D119	8-719-987-63	DIODE 1N4148M			
D120	8-719-200-82	DIODE 11ES2 (D560Z/DE615)			

Ref. No.	Part No.	Description	Remark
D120	8-719-024-99	DIODE 11ES2-NTA2B (D660Z/DE715)	
D121	8-719-987-63	DIODE 1N4148M (D560Z/DE615)	
		< FILTER >	
FL101	1-517-519-11	INDICATOR TUBE, FLUORESCENT	(D660Z/DE715)
FL101	1-517-672-11	INDICATOR TUBE, FLUORESCENT	(D560Z/DE615)
		< IC >	
IC101	8-759-459-83	IC NJL55H400	
IC102	8-759-442-92	IC M66004AFP-M6 (D660Z/DE715)	
IC103	8-759-458-11	IC MB90673PF-G-196-BND (D660Z/DE715)	
IC103	8-759-460-14	IC uPD780205GF-027-3BA (D560Z/DE615)	
IC105	8-759-634-84	IC M50255P (D660Z/DE715)	
IC106	8-759-962-08	IC BA6208	
		< COIL >	
L101	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q103	8-729-900-36	TRANSISTOR DTC124ES (D560Z/DE615)	
Q104	8-729-900-36	TRANSISTOR DTC124ES (D560Z/DE615)	
Q105	8-729-900-36	TRANSISTOR DTC124ES	
		< RESISTOR >	
R100	1-249-437-11	CARBON 47K 5% 1/4W	(D660Z/DE715)
R101	1-247-807-31	CARBON 100 5% 1/4W	
R102	1-247-807-31	CARBON 100 5% 1/4W	
R103	1-247-807-31	CARBON 100 5% 1/4W	
R104	1-247-807-31	CARBON 100 5% 1/4W	
R105	1-247-807-31	CARBON 100 5% 1/4W	
R106	1-247-807-31	CARBON 100 5% 1/4W	
R107	1-247-807-31	CARBON 100 5% 1/4W	
R108	1-247-807-31	CARBON 100 5% 1/4W	
R109	1-247-807-31	CARBON 100 5% 1/4W	
R110	1-247-807-31	CARBON 100 5% 1/4W	
R111	1-247-807-31	CARBON 100 5% 1/4W	
R112	1-247-807-31	CARBON 100 5% 1/4W	
R113	1-247-807-31	CARBON 100 5% 1/4W	
R114	1-247-807-31	CARBON 100 5% 1/4W	
R115	1-249-429-11	CARBON 10K 5% 1/4W	(D660Z/DE715)
R116	1-247-807-31	CARBON 100 5% 1/4W	(D660Z/DE715)
R118	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R119	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R120	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R121	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R122	1-249-425-11	CARBON 4.7K 5% 1/4W	
R123	1-249-425-11	CARBON 4.7K 5% 1/4W	
R124	1-249-425-11	CARBON 4.7K 5% 1/4W	
R125	1-249-425-11	CARBON 4.7K 5% 1/4W	
R126	1-249-425-11	CARBON 4.7K 5% 1/4W	
R127	1-249-425-11	CARBON 4.7K 5% 1/4W	
R128	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R128	1-249-429-11	CARBON 10K 5% 1/4W	(D560Z/DE615)
R129	1-247-807-31	CARBON 100 5% 1/4W	
R130	1-249-429-11	CARBON 10K 5% 1/4W	(D660Z/DE715)
R131	1-249-419-11	CARBON 1.5K 5% 1/4W	(D660Z/DE715)
R132	1-249-417-11	CARBON 1K 5% 1/4W	
R133	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R133	1-247-807-31	CARBON 100 5% 1/4W	(D560Z/DE615)
R134	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R134	1-247-807-31	CARBON 100 5% 1/4W	(D560Z/DE615)
R135	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R135	1-247-807-31	CARBON 100 5% 1/4W	(D560Z/DE615)
R136	1-249-417-11	CARBON 1K 5% 1/4W	(D660Z/DE715)
R136	1-247-807-31	CARBON 100 5% 1/4W	(D560Z/DE615)
R137	1-247-807-31	CARBON 100 5% 1/4W	
R138	1-249-417-11	CARBON 1K 5% 1/4W	
R139	1-247-807-31	CARBON 100 5% 1/4W	
R140	1-247-807-31	CARBON 100 5% 1/4W	
R141	1-247-807-31	CARBON 100 5% 1/4W	
R142	1-247-807-31	CARBON 100 5% 1/4W	
R143	1-249-429-11	CARBON 10K 5% 1/4W	(D660Z/DE715)
R143	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R144	1-249-437-11	CARBON 47K 5% 1/4W	(D660Z/DE715)
R144	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R145	1-249-433-11	CARBON 22K 5% 1/4W	(D660Z/DE715)
R145	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R146	1-247-807-31	CARBON 100 5% 1/4W	(D660Z/DE715)
R146	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R147	1-247-807-31	CARBON 100 5% 1/4W	(D660Z/DE715)
R147	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R148	1-247-807-31	CARBON 100 5% 1/4W	(D660Z/DE715)
R148	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R149	1-247-807-31	CARBON 100 5% 1/4W	(D660Z/DE715)
R149	1-249-417-11	CARBON 1K 5% 1/4W	(D560Z/DE615)
R150	1-249-393-11	CARBON 10 5% 1/4W	

DISPLAY | L.B. SW

Ref. No.	Part No.	Description			Remark
R151	1-249-429-11	CARBON	10K	5% 1/4W	(D660Z/DE715)
R152	1-249-434-11	CARBON	27K	5% 1/4W	(D660Z/DE715)
⚠R153	1-249-385-11	CARBON	2.2	5% 1/6W F	
⚠R154	1-249-385-11	CARBON	2.2	5% 1/6W F	
R155	1-249-411-11	CARBON	330	5% 1/4W	
R156	1-249-411-11	CARBON	330	5% 1/4W	
R157	1-249-411-11	CARBON	330	5% 1/4W	
R158	1-249-411-11	CARBON	330	5% 1/4W	
R159	1-249-437-11	CARBON	47K	5% 1/4W	(D660Z/DE715)
R160	1-249-411-11	CARBON	330	5% 1/4W	
R162	1-249-429-11	CARBON	10K	5% 1/4W	
R163	1-247-807-31	CARBON	100	5% 1/4W	(D660Z/DE715)
R164	1-249-429-11	CARBON	10K	5% 1/4W	
R165	1-249-429-11	CARBON	10K	5% 1/4W	
R166	1-249-429-11	CARBON	10K	5% 1/4W	
R167	1-249-437-11	CARBON	47K	5% 1/4W	(D660Z/DE715)
R168	1-249-437-11	CARBON	47K	5% 1/4W	(D660Z/DE715)
R170	1-249-437-11	CARBON	47K	5% 1/4W	(D660Z/DE715)
R171	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
R172	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
R188	1-249-411-11	CARBON	330	5% 1/4W	
R189	1-249-413-11	CARBON	470	5% 1/4W	
R190	1-249-415-11	CARBON	680	5% 1/4W	
R191	1-249-417-11	CARBON	1K	5% 1/4W	
R192	1-249-419-11	CARBON	1.5K	5% 1/4W	
R193	1-249-421-11	CARBON	2.2K	5% 1/4W	
R194	1-249-425-11	CARBON	4.7K	5% 1/4W	
R195	1-249-411-11	CARBON	330	5% 1/4W	
R196	1-249-413-11	CARBON	470	5% 1/4W	
R197	1-249-415-11	CARBON	680	5% 1/4W	
R198	1-249-417-11	CARBON	1K	5% 1/4W	
R199	1-249-419-11	CARBON	1.5K	5% 1/4W	
RR10	1-249-425-11	CARBON	4.7K	5% 1/4W	
RR11	1-249-411-11	CARBON	330	5% 1/4W	(D660Z/DE715:AUS)
RR12	1-249-413-11	CARBON	470	5% 1/4W	(DE715:AUS)
RR13	1-249-415-11	CARBON	680	5% 1/4W	(DE715:AUS)
RR14	1-249-417-11	CARBON	1K	5% 1/4W	(DE715:AUS)
RR15	1-249-419-11	CARBON	1.5K	5% 1/4W	(DE715:AUS)
RR101	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR102	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR103	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR104	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR105	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR106	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR107	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR108	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR109	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR110	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR111	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR112	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR113	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR114	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR115	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR116	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR117	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR118	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR119	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR120	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR121	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR122	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR123	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR124	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR125	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR126	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR127	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR128	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR129	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)
RR130	1-249-437-11	CARBON	47K	5% 1/4W	(D560Z/DE615)

< SWITCH >

S123	1-762-751-11	SWITCH, TACTILE (◁)
S124	1-762-751-11	SWITCH, TACTILE (▷)
S125	1-762-751-11	SWITCH, TACTILE (MEMORY)
S126	1-762-751-11	SWITCH, TACTILE (FM MODE)
S127	1-762-751-11	SWITCH, TACTILE (FM/AM)
S128	1-762-751-11	SWITCH, TACTILE (DISPLAY)
S129	1-762-751-11	SWITCH, TACTILE (△)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
S130	1-762-751-11	SWITCH, TACTILE (▽)				
S131	1-762-751-11	SWITCH, TACTILE (PRESET TUNING –)				
S132	1-762-751-11	SWITCH, TACTILE (TUNING –)				
S133	1-762-751-11	SWITCH, TACTILE (PRESET TUNING +)				
S134	1-762-751-11	SWITCH, TACTILE (TUNING +)				
S135	1-762-751-11	SWITCH, TACTILE (BASS BOOST)				
S151	1-762-751-11	SWITCH, TACTILE (POWER)				
		< VIBRATOR >				
X101	1-567-819-11	VIBRATOR, CERAMIC (4.19MHz)				(D660Z/DE715)
X101	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)				(D560Z/DE615)
**********						
*	1-665-468-11	HP BOARD (D560Z/DE615)				
*	1-665-479-11	HP BOARD (D660Z/DE715)				
		*********				
		< CONNECTOR >				
* CNP702	1-564-518-11	PLUG, CONNECTOR 3P				
		< JACK >				
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)				
**********						
*	A-4392-894-A	REAR AMP BOARD, COMPLETE				(D560Z/DE615)
*	A-4392-920-A	REAR AMP BOARD, COMPLETE				(D660Z/DE715:US,CND)
*	A-4392-922-A	REAR AMP BOARD, COMPLETE (DE715:AUS)				
		**********				
		< CAPACITOR >				
C700	1-162-294-31	CERAMIC	0.001uF	10%	50V	(US,CND)
C701	1-126-964-11	ELECT	10uF	20%	50V	
C702	1-162-282-31	CERAMIC	100PF	10%	50V	
C703	1-102-233-00	CERAMIC	33PF	10%	500V	
C704	1-162-282-31	CERAMIC	100PF	10%	50V	
C705	1-126-933-11	ELECT	100uF	20%	10V	
C720	1-126-967-11	ELECT	47uF	20%	16V	
C721	1-107-597-11	CERAMIC	22PF	10%	500V	
C722	1-107-597-11	CERAMIC	22PF	10%	500V	
C723	1-162-286-31	CERAMIC	220PF	10%	50V	
C751	1-126-964-11	ELECT	10uF	20%	50V	
C752	1-162-282-31	CERAMIC	100PF	10%	50V	
C753	1-102-233-00	CERAMIC	33PF	10%	500V	
C754	1-162-282-31	CERAMIC	100PF	10%	50V	
C755	1-126-933-11	ELECT	100uF	20%	10V	
C770	1-126-967-11	ELECT	47uF	20%	16V	
C771	1-107-597-11	CERAMIC	22PF	10%	500V	
C772	1-107-597-11	CERAMIC	22PF	10%	500V	
C773	1-162-286-31	CERAMIC	220PF	10%	50V	
C793	1-126-923-11	ELECT	220uF	20%	10V	
C798	1-128-560-11	ELECT	22uF	20%	100V	
C799	1-128-560-11	ELECT	22uF	20%	100V	

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
CNP704	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P				
* CNP705	1-564-242-00	PIN, CONNECTOR 5P				
CNP706	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P				
* CNS704	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P (AUS)				
CNS704	1-564-510-11	PLUG, CONNECTOR 7P (US,CND)				
		< DIODE >				
D701	8-719-987-63	DIODE 1N4148M				
D702	8-719-010-06	DIODE UZ-2.2BS				
D703	8-719-010-06	DIODE UZ-2.2BS				
D704	8-719-987-63	DIODE 1N4148M				
D751	8-719-987-63	DIODE 1N4148M				
D752	8-719-010-06	DIODE UZ-2.2BS				
D753	8-719-010-06	DIODE UZ-2.2BS				
D754	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC701	8-759-326-52	IC uPC2581V				
		< TRANSISTOR >				
Q703	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q704	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q705	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q706	8-749-010-25	IC MN2488-OPY-M				
Q707	8-749-010-26	IC MP1620-OPY-M				
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q754	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q755	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q756	8-749-010-25	IC MN2488-OPY-M				
Q757	8-749-010-26	IC MP1620-OPY-M				
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
		< RESISTOR >				
R701	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-439-11	CARBON	68K	5%	1/4W	
R703	1-249-439-11	CARBON	68K	5%	1/4W	
R704	1-249-411-11	CARBON	330	5%	1/4W	
R721	1-249-437-11	CARBON	47K	5%	1/4W	
R722	1-249-421-11	CARBON	2.2K	5%	1/4W	
R723	1-249-414-11	CARBON	560	5%	1/4W	
⚠R724	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R726	1-233-352-41	ENCAPSULATED COMPONENT 0.22X2			2W	F
R727	1-247-850-11	CARBON	6.2K	5%	1/4W	
R728	1-249-419-11	CARBON	1.5K	5%	1/4W	
R732	1-249-437-11	CARBON	47K	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-439-11	CARBON	68K	5%	1/4W	
R753	1-249-439-11	CARBON	68K	5%	1/4W	
R754	1-249-411-11	CARBON	330	5%	1/4W	
R771	1-249-437-11	CARBON	47K	5%	1/4W	
R772	1-249-421-11	CARBON	2.2K	5%	1/4W	
R773	1-249-414-11	CARBON	560	5%	1/4W	
⚠R774	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REAR AMP | S-A-SP | SECONDARY | SP

Ref. No.	Part No.	Description			Remark
⚠R776	1-233-352-41	ENCAPSULATED COMPONENT 0.22X2	2W		F
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-419-11	CARBON	1.5K	5%	1/4W
R782	1-249-437-11	CARBON	47K	5%	1/4W
R790	1-249-417-11	CARBON	1K	5%	1/4W
R793	1-249-435-11	CARBON	33K	5%	1/4W
R794	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R798	1-249-393-11	CARBON	10	5%	1/4W F
⚠R799	1-249-393-11	CARBON	10	5%	1/4W F
**********					
*	1-665-492-11	S-A-SP BOARD			
		**********			
		< CONNECTOR >			
CNP703	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
CNS702	1-695-096-11	SOCKET, CONNECTOR 15P			
CNS905	1-695-092-11	SOCKET, CONNECTOR 7P			
**********					
*	1-665-487-11	SECONDARY BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE (AUS)			
		< CAPACITOR >			
C801	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C805	1-137-420-11	FILM	0.047uF	10%	100V (US,CND)
C805	1-130-781-00	FILM	0.22uF	10%	100V (AUS)
C806	1-137-420-11	FILM	0.047uF	10%	100V (US,CND)
C806	1-130-781-00	FILM	0.22uF	10%	100V (AUS)
		< CONNECTOR >			
* CNP801	1-564-905-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-302-38	DIODE RBV-602-01			
D802	8-719-024-99	DIODE 11ES2-NTA2B			
D803	8-719-024-99	DIODE 11ES2-NTA2B			
D804	8-719-024-99	DIODE 11ES2-NTA2B			
D805	8-719-024-99	DIODE 11ES2-NTA2B			
D806	8-719-014-66	DIODE UZP-5.6B			
		< FUSE >			
⚠F950	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)			
⚠F951	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)			
⚠PS801	1-533-909-11	MICRO FUSE	4.0A		
⚠ PS802	1-533-909-11	MICRO FUSE	4.0A		
**********					

Ref. No.	Part No.	Description			Remark
*	A-4392-941-A	SP BOARD, COMPLETE (D560Z/D660Z)			
*	A-4392-913-A	SP BOARD, COMPLETE (DE615/DE715:US,CND)			
*	A-4392-936-A	SP BOARD, COMPLETE (DE715 : AUS)			
		**********			
		< CAPACITOR >			
C624	1-126-964-11	ELECT	10uF	20%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C626	1-136-153-00	FILM	0.01uF	5%	50V
C724	1-126-964-11	ELECT	10uF	20%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C726	1-136-153-00	FILM	0.01uF	5%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V
C794	1-126-967-11	ELECT	47uF	20%	50V
C795	1-126-941-11	ELECT	470uF	20%	25V
		< JACK >			
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P (WIRELESS REAR SPEAKER) (DE615/DE715)			
		< CONNECTOR >			
CNP603	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNS703	1-695-094-11	SOCKET, CONNECTOR 11P			
		< DIODE >			
D543	8-719-987-63	DIODE 1N4148M			
D605	8-719-987-63	DIODE 1N4148M			
D606	8-719-987-63	DIODE 1N4148M			
D607	8-719-987-63	DIODE 1N4148M			
D649	8-719-987-63	DIODE 1N4148M			
D705	8-719-987-63	DIODE 1N4148M			
D706	8-719-987-63	DIODE 1N4148M			
D749	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC702	8-759-605-01	IC M5F78M18L (DE615/DE715:US,CND)			
IC702	8-759-634-65	IC M5278D09 (DE715 : AUS)			
		< JACK >			
J501	1-770-377-31	JACK, PIN 1P (WOOFER AUDIO OUT)			
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q544	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q609	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q610	8-729-900-63	TRANSISTOR DTA124ES			
Q611	8-729-900-63	TRANSISTOR DTA124ES			
Q645	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q709	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q710	8-729-900-63	TRANSISTOR DTA124ES			
Q745	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q747	8-729-119-79	TRANSISTOR 2SC2785-FEK (DE615/DE715)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
Q748	8-729-030-19	TRANSISTOR 2SB1640 (DE615/DE715)				
		< RESISTOR >				
R543	1-249-429-11	CARBON	10K	5%	1/4W	
R544	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R545	1-249-393-11	CARBON	10	5%	1/4W	F
R546	1-249-421-11	CARBON	2.2K	5%	1/4W	
R629	1-247-866-11	CARBON	30K	5%	1/4W	
R630	1-249-421-11	CARBON	2.2K	5%	1/4W	
R631	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R633	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R634	1-249-389-11	CARBON	4.7	5%	1/4W	F
R635	1-249-431-11	CARBON	15K	5%	1/4W	
R636	1-249-433-11	CARBON	22K	5%	1/4W	
R646	1-249-432-11	CARBON	18K	5%	1/4W	
R647	1-249-429-11	CARBON	10K	5%	1/4W	
R648	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R649	1-249-393-11	CARBON	10	5%	1/4W	F
R729	1-247-866-11	CARBON	30K	5%	1/4W	
R730	1-249-421-11	CARBON	2.2K	5%	1/4W	
R731	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R733	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R734	1-249-389-11	CARBON	4.7	5%	1/4W	F
R735	1-249-431-11	CARBON	15K	5%	1/4W	
R737	1-249-417-11	CARBON	1K	5%	1/4W (DE615/DE715)	
R738	1-247-886-11	CARBON	200K	5%	1/4W (DE615/DE715)	
R743	1-249-425-11	CARBON	4.7K	5%	1/4W (DE615/DE715)	
R744	1-249-425-11	CARBON	4.7K	5%	1/4W (DE615/DE715)	
R745	1-249-421-11	CARBON	2.2K	5%	1/4W (DE615/DE715)	
R746	1-249-421-11	CARBON	2.2K	5%	1/4W (DE615/DE715)	
R747	1-249-429-11	CARBON	10K	5%	1/4W	
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R749	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R783	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R784	1-249-389-11	CARBON	4.7	5%	1/4W	F
R787	1-249-417-11	CARBON	1K	5%	1/4W (DE615/DE715)	
R788	1-247-886-11	CARBON	200K	5%	1/4W (DE615/DE715)	
		< RELAY >				
RY503	1-515-793-11	RELAY				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
		< SWITCH >				
S501	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR FRONT)				
		< TERMINAL >				
TM701	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P)				

****

Ref. No.	Part No.	Description				Remark
*	1-665-481-11	SP.SW BOARD (D660Z/DE715)				
*	1-665-470-11	SP.SW BOARD (D560Z/DE615)				
		**********				
		< CONNECTOR >				
* CNS101	1-695-808-11	CONNECTOR, PC BOARD 8P				
		< DIODE >				
D152	8-719-987-63	DIODE 1N4148M				
D153	8-719-987-63	DIODE 1N4148M				
		< SWITCH >				
S136	1-762-751-11	SWITCH, TACTILE (DPC MODE)				
S155	1-762-268-11	SWITCH, ROTARY (SPEAKERS)				

****

*	A-4392-915-A	STAND BY BOARD, COMPLETE (US,CND)				
*	A-4392-939-A	STAND BY BOARD, COMPLETE (AUS)				
		**********				
	1-533-217-31	HOLDER, FUSE				
		< CAPACITOR >				
C901	1-136-157-00	FILM	0.022uF	5%	50V	
C902	1-136-157-00	FILM	0.022uF	5%	50V	
C903	1-126-768-11	ELECT	2200uF	20%	16V	
C904	1-126-960-11	ELECT	1uF	20%	50V	
C905	1-126-959-11	ELECT	0.47uF	20%	50V	
C906	1-124-464-11	ELECT	0.22uF	20%	50V	
C913	1-164-159-11	CERAMIC	0.1uF		50V	
C914	1-164-159-11	CERAMIC	0.1uF		50V	
		< JACK >				
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET) (US,CND)				
		< CONNECTOR >				
CNP903	1-564-321-00	PIN, CONNECTOR 2P				
* CNP904	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P (AUS)				
CNP905	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P				
		< DIODE >				
D901	8-719-024-99	DIODE 11ES2-NTA2B				
D902	8-719-024-99	DIODE 11ES2-NTA2B				
D903	8-719-024-99	DIODE 11ES2-NTA2B				
D904	8-719-024-99	DIODE 11ES2-NTA2B				
D905	8-719-987-63	DIODE 1N4148M				
D906	8-719-987-63	DIODE 1N4148M				
D907	8-719-987-63	DIODE 1N4148M				
		< TERMINAL, EARTH >				
* EB900	1-537-738-21	TERMINAL, EARTH				
		< FUSE >				
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)				
⚠F901	1-533-310-11	FUSE, GLASS CYLINDRICAL(DIA.5) (6.3A/125V) (US,CND)				
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V) (AUS)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

STAND BY | SURR

Ref. No.	Part No.	Description			Remark
		< IC >			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-030-18	TRANSISTOR 2SD2525			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W (US,CND)
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-428-11	CARBON	8.2K	5%	1/4W
R906	1-249-421-11	CARBON	2.2K	5%	1/4W
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-249-430-11	CARBON	12K	5%	1/4W
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER (US,CND)			
⚠T902	1-450-358-11	TRANSFORMER, POWER (AUS)			
**********					
*	A-4392-905-A	SURR BOARD, COMPLETE (US,CND)			
*	A-4392-931-A	SURR BOARD, COMPLETE (AUS)			
		**********			
		< CAPACITOR >			
C301	1-126-963-11	ELECT	4.7uF	20%	50V
C302	1-162-282-31	CERAMIC	100PF	10%	50V
C303	1-126-967-11	ELECT	47uF	20%	16V
C304	1-130-480-00	MYLAR	0.0056uF	5%	50V
C305	1-130-473-00	MYLAR	0.0015uF	5%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-164-159-11	CERAMIC	0.1uF		50V
C351	1-126-963-11	ELECT	4.7uF	20%	50V
C352	1-162-282-31	CERAMIC	100PF	10%	50V
C353	1-126-967-11	ELECT	47uF	20%	16V
C354	1-130-480-00	MYLAR	0.0056uF	5%	50V
C355	1-130-473-00	MYLAR	0.0015uF	5%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C394	1-126-967-11	ELECT	47uF	20%	16V
C395	1-126-967-11	ELECT	47uF	20%	16V
C396	1-162-282-31	CERAMIC	100PF	10%	50V
C397	1-162-294-31	CERAMIC	0.001uF	10%	50V
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-126-964-11	ELECT	10uF	20%	50V
C403	1-126-964-11	ELECT	10uF	20%	50V
C404	1-162-199-31	CERAMIC	10PF	5%	50V
C405	1-162-199-31	CERAMIC	10PF	5%	50V
C406	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C410	1-164-159-11	CERAMIC	0.1uF		50V
C413	1-126-964-11	ELECT	10uF	20%	50V
C420	1-136-165-00	FILM	0.1uF	5%	50V
C421	1-126-933-11	ELECT	100uF	20%	16V
C422	1-164-159-11	CERAMIC	0.1uF		50V
C423	1-126-933-11	ELECT	100uF	20%	16V
C424	1-164-159-11	CERAMIC	0.1uF		50V
C425	1-128-551-11	ELECT	22uF	20%	25V
C426	1-136-177-00	FILM	1uF	5%	50V
C427	1-136-153-00	FILM	0.01uF	5%	50V
C428	1-130-474-00	MYLAR	0.0018uF	5%	50V
C429	1-136-163-00	FILM	0.068uF	5%	50V
C430	1-136-165-00	FILM	0.1uF	5%	50V
C431	1-136-165-00	FILM	0.1uF	5%	50V
C432	1-136-163-00	FILM	0.068uF	5%	50V
C433	1-136-153-00	FILM	0.01uF	5%	50V
C434	1-130-474-00	MYLAR	0.0018uF	5%	50V
C435	1-136-163-00	FILM	0.068uF	5%	50V
C436	1-136-165-00	FILM	0.1uF	5%	50V
C437	1-130-467-00	MYLAR	470PF	5%	50V
C438	1-136-165-00	FILM	0.1uF	5%	50V
C439	1-130-470-00	MYLAR	820PF	5%	50V
C440	1-130-480-00	MYLAR	0.0056uF	5%	50V
C441	1-136-161-00	FILM	0.047uF	5%	50V
C442	1-136-175-00	FILM	0.68uF	5%	50V
C443	1-136-169-00	FILM	0.22uF	5%	50V
C444	1-136-169-00	FILM	0.22uF	5%	50V
C445	1-126-963-11	ELECT	4.7uF	20%	50V
C446	1-126-963-11	ELECT	4.7uF	20%	50V
C447	1-136-169-00	FILM	0.22uF	5%	50V
C448	1-136-169-00	FILM	0.22uF	5%	50V
C449	1-136-165-00	FILM	0.1uF	5%	50V
C450	1-136-161-00	FILM	0.047uF	5%	50V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C453	1-126-964-11	ELECT	10uF	20%	50V
C454	1-162-199-31	CERAMIC	10PF	5%	50V
C455	1-162-199-31	CERAMIC	10PF	5%	50V
C456	1-126-964-11	ELECT	10uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C463	1-126-964-11	ELECT	10uF	20%	50V
C469	1-126-963-11	ELECT	4.7uF	20%	50V
C470	1-136-161-00	FILM	0.047uF	5%	50V
C471	1-136-165-00	FILM	0.1uF	5%	50V
C472	1-136-165-00	FILM	0.1uF	5%	50V
C473	1-136-157-00	FILM	0.022uF	5%	50V
C474	1-136-157-00	FILM	0.022uF	5%	50V
C475	1-136-165-00	FILM	0.1uF	5%	50V
C476	1-130-469-00	MYLAR	680PF	5%	50V
C477	1-126-967-11	ELECT	47uF	20%	16V
C478	1-136-165-00	FILM	0.1uF	5%	50V
C479	1-136-165-00	FILM	0.1uF	5%	50V
C480	1-130-469-00	MYLAR	680PF	5%	50V
C481	1-136-165-00	FILM	0.1uF	5%	50V
C482	1-136-165-00	FILM	0.1uF	5%	50V
C483	1-126-967-11	ELECT	47uF	20%	16V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C484	1-126-933-11	ELECT	100uF	20%	16V
C489	1-164-159-11	CERAMIC	0.1uF		50V
C490	1-126-923-11	ELECT	220uF	20%	10V
C491	1-126-963-11	ELECT	4.7uF	20%	50V
C492	1-130-481-00	MYLAR	0.0068uF	5%	50V
C493	1-136-165-00	FILM	0.1uF	5%	50V
C494	1-136-165-00	FILM	0.1uF	5%	50V
C497	1-162-215-31	CERAMIC	47PF	5%	50V
C498	1-164-159-11	CERAMIC	0.1uF		50V
C499	1-126-964-11	ELECT	10uF	20%	50V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-162-282-31	CERAMIC	100PF	10%	50V
C503	1-107-601-11	CERAMIC	33PF	5%	500V
C505	1-126-933-11	ELECT	100uF	20%	16V
C508	1-136-163-00	FILM	0.068uF	5%	50V
C509	1-136-154-00	FILM	0.012uF	5%	50V
C511	1-130-476-00	MYLAR	0.0027uF	5%	50V
C512	1-136-157-00	FILM	0.022uF	5%	50V
C513	1-136-171-00	FILM	0.33uF	5%	50V
C514	1-136-159-00	FILM	0.033uF	5%	50V
C527	1-126-964-11	ELECT	10uF	20%	50V
C539	1-162-282-31	CERAMIC	100PF	10%	50V
C551	1-126-964-11	ELECT	10uF	20%	50V
C552	1-162-282-31	CERAMIC	100PF	10%	50V
C553	1-107-601-11	CERAMIC	33PF	5%	500V
C555	1-126-933-11	ELECT	100uF	20%	16V
C558	1-136-163-00	FILM	0.068uF	5%	50V
C559	1-136-154-00	FILM	0.012uF	5%	50V
C561	1-130-476-00	MYLAR	0.0027uF	5%	50V
C562	1-136-157-00	FILM	0.022uF	5%	50V
C563	1-136-171-00	FILM	0.33uF	5%	50V
C564	1-136-159-00	FILM	0.033uF	5%	50V
C577	1-126-964-11	ELECT	10uF	20%	50V
C589	1-162-282-31	CERAMIC	100PF	10%	50V
C592	1-126-967-11	ELECT	47uF	20%	16V
C593	1-126-923-11	ELECT	220uF	20%	10V
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C596	1-164-159-11	CERAMIC	0.1uF		50V
C597	1-162-282-31	CERAMIC	100PF	10%	50V
C599	1-126-967-11	ELECT	47uF	20%	16V
C601	1-126-964-11	ELECT	10uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-102-989-00	CERAMIC	68PF	5%	500V
C604	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C605	1-126-967-11	ELECT	47uF	20%	16V
C606	1-102-989-00	CERAMIC	68PF	5%	500V
		< CONNECTOR >			
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP403	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP404	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
CNS106	1-569-323-11	SOCKET, CONNECTOR 19P			
CNS401	1-569-323-11	SOCKET, CONNECTOR 19P			
CNS501	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNS601	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
		< DIODE >			
D401	8-719-987-63	DIODE 1N4148M			
D402	8-719-987-63	DIODE 1N4148M			
D403	8-719-024-99	DIODE 11ES2-NTA2B			
		< IC >			
IC301	8-759-805-14	IC LC7822			
IC302	8-759-636-74	IC M5218AP-22			
IC401	8-759-392-97	IC M62460FP			
IC402	8-759-634-51	IC M5218AP			
IC403	8-759-634-51	IC M5218AP			
IC404	8-759-634-51	IC M5218AP			
IC407	8-759-168-20	IC TA78L09S			
IC408	8-759-708-05	IC NJM78L05A			
IC501	8-759-326-52	IC uPC2581V			
IC502	8-759-072-32	IC TC9184P			
IC601	8-749-011-16	IC STK350-230			
		< JACK >			
J301	1-770-015-11	JACK, PIN 6P (DAT/MD REC OUT,CD IN,PHONO IN)			
J302	1-774-411-11	JACK, PIN 6P (TAPE IN/OUT,DAT/MD IN)			
		< COIL >			
L401	1-410-509-11	INDUCTOR	10uH		
L402	1-410-509-11	INDUCTOR	10uH		
L403	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q402	8-729-922-37	TRANSISTOR 2SD2144S			
Q410	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q411	8-729-900-63	TRANSISTOR DTA124ES			
Q412	8-729-900-63	TRANSISTOR DTA124ES			
Q413	8-729-900-63	TRANSISTOR DTA124ES			
Q414	8-729-900-63	TRANSISTOR DTA124ES			
Q415	8-729-900-36	TRANSISTOR DTC124ES			
Q416	8-729-900-36	TRANSISTOR DTC124ES			
Q452	8-729-922-37	TRANSISTOR 2SD2144S			
Q501	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q503	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q551	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R310	1-249-421-11	CARBON	2.2K	5%	1/4W
R311	1-249-417-11	CARBON	1K	5%	1/4W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R351	1-249-409-11	CARBON	220	5%	1/4W
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W

SURR

Ref. No.	Part No.	Description			Remark
R354	1-249-416-11	CARBON	820	5%	1/4W
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R360	1-249-421-11	CARBON	2.2K	5%	1/4W
R361	1-249-417-11	CARBON	1K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R363	1-249-417-11	CARBON	1K	5%	1/4W
R364	1-249-417-11	CARBON	1K	5%	1/4W
R365	1-249-429-11	CARBON	10K	5%	1/4W
R394	1-247-807-31	CARBON	100	5%	1/4W
R395	1-247-807-31	CARBON	100	5%	1/4W
R396	1-249-417-11	CARBON	1K	5%	1/4W
R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R401	1-249-433-11	CARBON	22K	5%	1/4W
R402	1-249-434-11	CARBON	27K	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-440-11	CARBON	82K	5%	1/4W
R406	1-247-895-00	CARBON	470K	5%	1/4W
R407	1-249-441-11	CARBON	100K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-433-11	CARBON	22K	5%	1/4W
R414	1-249-417-11	CARBON	1K	5%	1/4W
R415	1-249-425-11	CARBON	4.7K	5%	1/4W
R426	1-249-429-11	CARBON	10K	5%	1/4W
R427	1-249-429-11	CARBON	10K	5%	1/4W
R428	1-247-903-00	CARBON	1M	5%	1/4W
R429	1-247-872-11	CARBON	51K	5%	1/4W
R430	1-247-887-00	CARBON	220K	5%	1/4W
R431	1-247-864-11	CARBON	24K	5%	1/4W
R432	1-247-864-11	CARBON	24K	5%	1/4W
R433	1-247-891-00	CARBON	330K	5%	1/4W
R434	1-249-437-11	CARBON	47K	5%	1/4W
R435	1-249-431-11	CARBON	15K	5%	1/4W
R436	1-247-852-11	CARBON	7.5K	5%	1/4W
R437	1-249-437-11	CARBON	47K	5%	1/4W
R438	1-249-431-11	CARBON	15K	5%	1/4W
R439	1-247-852-11	CARBON	7.5K	5%	1/4W
R440	1-259-880-11	CARBON	2.2M	5%	1/4W
R441	1-249-441-11	CARBON	100K	5%	1/4W
R442	1-247-883-00	CARBON	150K	5%	1/4W
R443	1-249-431-11	CARBON	15K	5%	1/4W
R444	1-249-429-11	CARBON	10K	5%	1/4W
R445	1-249-429-11	CARBON	10K	5%	1/4W
R446	1-249-419-11	CARBON	1.5K	5%	1/4W
R447	1-249-429-11	CARBON	10K	5%	1/4W
R448	1-249-429-11	CARBON	10K	5%	1/4W
R449	1-249-425-11	CARBON	4.7K	5%	1/4W
R450	1-249-441-11	CARBON	100K	5%	1/4W
R451	1-249-433-11	CARBON	22K	5%	1/4W
R452	1-249-434-11	CARBON	27K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W
R455	1-249-440-11	CARBON	82K	5%	1/4W
R456	1-247-895-00	CARBON	470K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R457	1-249-441-11	CARBON	100K	5%	1/4W
R458	1-249-429-11	CARBON	10K	5%	1/4W
R459	1-249-433-11	CARBON	22K	5%	1/4W
R464	1-249-417-11	CARBON	1K	5%	1/4W
R465	1-249-425-11	CARBON	4.7K	5%	1/4W
R475	1-247-872-11	CARBON	51K	5%	1/4W
R483	1-249-441-11	CARBON	100K	5%	1/4W
R484	1-249-441-11	CARBON	100K	5%	1/4W
R485	1-249-441-11	CARBON	100K	5%	1/4W
R486	1-249-437-11	CARBON	47K	5%	1/4W
R487	1-249-437-11	CARBON	47K	5%	1/4W
R488	1-249-437-11	CARBON	47K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W
R490	1-249-433-11	CARBON	22K	5%	1/4W
R491	1-249-429-11	CARBON	10K	5%	1/4W
R492	1-249-416-11	CARBON	820	5%	1/4W
R493	1-249-417-11	CARBON	1K	5%	1/4W
R494	1-249-417-11	CARBON	1K	5%	1/4W
R495	1-249-421-11	CARBON	2.2K	5%	1/4W
R496	1-249-421-11	CARBON	2.2K	5%	1/4W
R497	1-247-887-00	CARBON	220K	5%	1/4W
R498	1-247-887-00	CARBON	220K	5%	1/4W
R499	1-249-417-11	CARBON	1K	5%	1/4W
R500	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-439-11	CARBON	68K	5%	1/4W
R504	1-249-411-11	CARBON	330	5%	1/4W
R508	1-249-436-11	CARBON	39K	5%	1/4W
R509	1-247-903-00	CARBON	1M	5%	1/4W
R510	1-249-425-11	CARBON	4.7K	5%	1/4W
R511	1-249-434-11	CARBON	27K	5%	1/4W
R513	1-249-426-11	CARBON	5.6K	5%	1/4W
R514	1-249-418-11	CARBON	1.2K	5%	1/4W
R515	1-249-441-11	CARBON	100K	5%	1/4W
R516	1-247-843-11	CARBON	3.3K	5%	1/4W
R517	1-247-883-00	CARBON	150K	5%	1/4W
R518	1-249-427-11	CARBON	6.8K	5%	1/4W
R519	1-249-413-11	CARBON	470	5%	1/4W
R536	1-247-897-11	CARBON	560K	5%	1/4W
R537	1-249-417-11	CARBON	1K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W
R552	1-249-439-11	CARBON	68K	5%	1/4W
R553	1-249-439-11	CARBON	68K	5%	1/4W
R554	1-249-411-11	CARBON	330	5%	1/4W
R555	1-249-419-11	CARBON	1.5K	5%	1/4W
⚠R556	1-249-393-11	CARBON	10	5%	1/4W F
⚠R557	1-249-393-11	CARBON	10	5%	1/4W F
R558	1-249-436-11	CARBON	39K	5%	1/4W
R559	1-247-903-00	CARBON	1M	5%	1/4W
R560	1-249-425-11	CARBON	4.7K	5%	1/4W
R561	1-249-434-11	CARBON	27K	5%	1/4W
R563	1-249-426-11	CARBON	5.6K	5%	1/4W
R564	1-249-418-11	CARBON	1.2K	5%	1/4W
R565	1-249-441-11	CARBON	100K	5%	1/4W
R566	1-247-843-11	CARBON	3.3K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R567	1-247-883-00	CARBON	150K	5%	1/4W
R568	1-249-427-11	CARBON	6.8K	5%	1/4W
R569	1-249-413-11	CARBON	470	5%	1/4W
R591	1-247-897-11	CARBON	560K	5%	1/4W
R592	1-249-425-11	CARBON	4.7K	5%	1/4W
R593	1-249-435-11	CARBON	33K	5%	1/4W
R594	1-249-425-11	CARBON	4.7K	5%	1/4W
R595	1-247-903-00	CARBON	1M	5%	1/4W
R596	1-249-419-11	CARBON	1.5K	5%	1/4W
R599	1-249-425-11	CARBON	4.7K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-411-11	CARBON	330	5%	1/4W
R604	1-249-439-11	CARBON	68K	5%	1/4W
R605	1-249-413-11	CARBON	470	5%	1/4W
		< RELAY >			
RY401	1-515-614-11	RELAY			
		< TERMINAL >			
TM401	1-694-265-11	TERMINAL BOARD, ANT (ANTENNA) (US,CND)			
TM401	1-694-266-11	TERMINAL BOARD, ANT (ANTENNA) (AUS)			
		< TUNER >			
TU401	1-233-592-11	TUNER (US,CND)			
TU401	1-693-377-11	TUNER (AUS)			
		< VIBRATOR >			
X401	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-665-490-11	SURR-AUDIO BOARD			
		**********			
		< CONNECTOR >			
CNP302	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNS303	1-695-095-11	SOCKET, CONNECTOR 13P			
**********					
*	A-4392-908-A	SW BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CNS103	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< RESISTOR >			
R169	1-249-411-11	CARBON	330	5%	1/4W
R170	1-249-413-11	CARBON	470	5%	1/4W
R171	1-249-415-11	CARBON	680	5%	1/4W
R172	1-249-417-11	CARBON	1K	5%	1/4W
R173	1-249-419-11	CARBON	1.5K	5%	1/4W
R174	1-249-421-11	CARBON	2.2K	5%	1/4W
R175	1-249-425-11	CARBON	4.7K	5%	1/4W
R176	1-249-411-11	CARBON	330	5%	1/4W
R177	1-249-413-11	CARBON	470	5%	1/4W
R178	1-249-415-11	CARBON	680	5%	1/4W
R179	1-249-417-11	CARBON	1K	5%	1/4W
R180	1-249-419-11	CARBON	1.5K	5%	1/4W
R181	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R182	1-249-411-11	CARBON	330	5%	1/4W
R183	1-249-413-11	CARBON	470	5%	1/4W
R184	1-249-415-11	CARBON	680	5%	1/4W
R185	1-249-417-11	CARBON	1K	5%	1/4W
R186	1-249-419-11	CARBON	1.5K	5%	1/4W
R187	1-249-421-11	CARBON	2.2K	5%	1/4W
		< SWITCH >			
S101	1-762-751-11	SWITCH, TACTILE (1)			
S102	1-762-751-11	SWITCH, TACTILE (4)			
S103	1-762-751-11	SWITCH, TACTILE (7)			
S104	1-762-751-11	SWITCH, TACTILE (0)			
S105	1-762-751-11	SWITCH, TACTILE (DIRECT PASS)			
S106	1-762-751-11	SWITCH, TACTILE (GENRE)			
S107	1-762-751-11	SWITCH, TACTILE (SET UP)			
S108	1-762-751-11	SWITCH, TACTILE (MODE)			
S109	1-762-751-11	SWITCH, TACTILE (2)			
S110	1-762-751-11	SWITCH, TACTILE (5)			
S111	1-762-751-11	SWITCH, TACTILE (8)			
S112	1-762-751-11	SWITCH, TACTILE (DIRECT)			
S113	1-762-751-11	SWITCH, TACTILE (AUDIO FUNCTION <)			
S114	1-762-751-11	SWITCH, TACTILE (SOUND FIELD ON/OFF)			
S115	1-762-751-11	SWITCH, TACTILE (AUDIO FUNCTION >)			
S116	1-762-751-11	SWITCH, TACTILE (3)			
S117	1-762-751-11	SWITCH, TACTILE (6)			
S118	1-762-751-11	SWITCH, TACTILE (9)			
S119	1-762-751-11	SWITCH, TACTILE (SHIFT)			
S120	1-762-751-11	SWITCH, TACTILE (VIDEO FUNCTION <)			
S121	1-762-751-11	SWITCH, TACTILE (5.1/DVD INPUT)			
S122	1-762-751-11	SWITCH, TACTILE (VIDEO FUNCTION >)			
**********					
*	A-4392-897-A	VIDEO BOARD, COMPLETE (D560Z/DE615)			
*	A-4392-924-A	VIDEO BOARD, COMPLETE (D660Z/DE715)			
		**********			
		< CAPACITOR >			
C201	1-126-960-11	ELECT	1uF	20%	50V
C202	1-126-960-11	ELECT	1uF	20%	50V
C203	1-126-960-11	ELECT	1uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-126-964-11	ELECT	10uF	20%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-933-11	ELECT	100uF	20%	16V
C208	1-126-933-11	ELECT	100uF	20%	16V
C209	1-164-159-11	CERAMIC	0.1uF		50V
C210	1-164-159-11	CERAMIC	0.1uF		50V
C212	1-164-159-11	CERAMIC	0.1uF		50V
C214	1-126-960-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
CNS201	1-750-179-11	SOCKET, CONNECTOR 5P			
		< IC >			
IC201	8-759-061-95	IC SN761200			
		< JACK >			
J201	1-766-399-11	JACK, PIN 3P (MONITOR VIDEO OUT, VIDEO1 VIDEO IN OUT)			

VIDEO VOL

Ref. No.	Part No.	Description			Remark
J202	1-766-400-11	JACK, PIN 2P (VIDEO2 VIDEO IN OUT)			
J203	1-766-400-11	JACK, PIN 2P (TV/DBS VIDEO IN, 5.1/DVD VIDEO IN)			
		< COIL >			
L201	1-410-521-11	INDUCTOR	100uH		
L202	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q201	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q202	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q203	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q204	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q205	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q206	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R201	1-249-403-11	CARBON	68	5%	1/4W
R202	1-249-403-11	CARBON	68	5%	1/4W
R203	1-249-403-11	CARBON	68	5%	1/4W
R204	1-249-403-11	CARBON	68	5%	1/4W
R205	1-249-403-11	CARBON	68	5%	1/4W
R206	1-249-403-11	CARBON	68	5%	1/4W
R207	1-249-403-11	CARBON	68	5%	1/4W
R208	1-249-430-11	CARBON	12K	5%	1/4W
R209	1-249-419-11	CARBON	1.5K	5%	1/4W
R210	1-249-426-11	CARBON	5.6K	5%	1/4W
R211	1-249-430-11	CARBON	12K	5%	1/4W
R212	1-249-419-11	CARBON	1.5K	5%	1/4W
R213	1-249-426-11	CARBON	5.6K	5%	1/4W
R214	1-249-403-11	CARBON	68	5%	1/4W
R215	1-249-403-11	CARBON	68	5%	1/4W
R216	1-247-807-31	CARBON	100	5%	1/4W
R217	1-249-430-11	CARBON	12K	5%	1/4W
R218	1-249-419-11	CARBON	1.5K	5%	1/4W
R219	1-249-426-11	CARBON	5.6K	5%	1/4W
R220	1-249-403-11	CARBON	68	5%	1/4W
**********					
*	1-665-477-11	VOL BOARD (D660Z/DE715)			
*	1-665-466-11	VOL BOARD (D560Z/DE615)			
		**********			
		< CAPACITOR >			
C497	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CNP102	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
CNS402	1-569-323-11	SOCKET, CONNECTOR 19P			
CNS410	1-750-179-11	SOCKET, CONNECTOR 5P			
		< VARIABLE RESISTOR >			
RV401	1-225-445-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
19	1-773-130-11	WIRE (FLAT TYPE) (19 CORE) (100mm)	
20	1-769-928-11	WIRE (FLAT TYPE) (9 CORE) (DE715:US,CND)	
22	1-773-115-11	WIRE (FLAT TYPE) (19 CORE) (320mm)	
57	1-773-108-11	WIRE (FLAT TYPE) (19 CORE) (160mm)	
⚠60	1-696-847-11	CORD, POWER (AUS)	
⚠60	1-769-743-11	CORD, POWER (US,CND)	
103	1-533-217-31	HOLDER, FUSE	
⚠CNJ909	1-251-416-11	OUTLET, A.C. (AUS)	
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
⚠F901	1-533-310-11	FUSE, GLASS CYLINDRICAL(DIA.5) (6.3A/125V) (US,CND)	
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V) (AUS)	
⚠F950	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
⚠F951	1-532-506-51	FUSE, TIME LAG (T6.3AL/250V) (AUS)	
FL101	1-517-519-11	INDICATOR TUBE, FLUORESCENT (D660Z/DE715)	
FL101	1-517-672-11	INDICATOR TUBE, FLUORESCENT (D560Z/DE615)	
⚠T902	1-431-274-11	TRANSFORMER, POWER (US,CND)	
⚠T902	1-431-288-11	TRANSFORMER, POWER (AUS)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-134-11	REMOTE COMMANDER (RM-P501) (D660Z/DE715)	
	1-475-135-11	REMOTE COMMANDER (RM-U501) (D560Z/DE615)	
	1-501-721-11	ANTENNA (LOOP)	
	1-776-258-11	CORD, AVC CONNECTION (AUDIO,VIDEO, CONTROL S,150cm) (DE715:US,CND)	
	1-777-172-11	CORD, CONNECTION (CONTROL A1,100cm) (DE715:US,CND)	
	3-810-765-11	MANUAL,COMMONNESS INSTRUCTION (CONTROL A1) (ENGLISH) (DE715:US)	
	3-810-765-21	MANUAL,COMMONNESS INSTRUCTION (CONTROL A1) (ENGLISH,FRENCH,GERMAN, SWEDISH,DUTCH,SPANISH,ITALIAN, PORTUGUESE,CHINESE) (DE715:CND)	
	3-860-516-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-860-516-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	4-983-536-01	LID,BATTERY (FOR RM-P501,U501)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT(B)	
#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
#3	7-685-881-09	SCREW +BVTT 4X8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Sony Corporation
Home A&V Products Company

97F027029-1
Printed in Singapore © 1997.6
Published by General Engineering Dept. (Shibaura)

9-960-953-11